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[] Additional inventors are being named on separately numbered sheets attached hereto.

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

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Respectfully submitted

Benoit Castel Reg. No. 35,041 February 26, 1999

PROVISIONAL APPLICATION FILING ONLY

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DRUG DESIGN BASED ON THE STRUCTURE OF LTA, HYDROLASE

1. BACKGROUND

1.1 Technical field

The present invention relates to methods of design or identification of biologically active compounds, which methods are based on the first definition ever of a three-dimensional structure of a protein involved in the leukotriene cascade. Further, the invention relates to novel compounds obtained by said methods, to advantageous uses of such compounds as well as to processes for the preparation thereof.

1.2 Prior art

Leukotriene A4 (LTA4) hydrolase is a pivotal enzyme in the biosynthesis of leukotrienes, a family of paracrine hormones implicated in the pathophysiology of inflammatory and allergic disorders, in particular bronchial asthma (Samuelsson, B. Science 220, 568-75 (1983); and Lewis, R.A., Austen, K.F. & Soberman, R.J. N Engl J Med 323, 645-55 (1990)). Leukotrienes are formed by immunocompetent cells including neutrophils, eosinophils, basophils, mast cells, and macrophages, in response to a variety of immunological as well as non-immunological stimuli. These lipid mediators are divided into two major classes exemplified by the chemotaxin LTB4, and the spasmogenic cysteinyl-leukotrienes (LTC4, LTD4, and LTE4). Leukotriene biosynthesis is initiated by the enzyme 5-lipoxygenase which converts arachidonic acid into the unstable epoxide LTA4, a central intermediate in the leukotriene cascade. LTA4 may in turn be hydrolyzed into LTB4 by the enzyme LTA4 hydrolase, or conjugated with GSH to form LTC4, a reaction catalyzed by a specific LTC4 synthase. During cellular activation, all key enzymes in leukotriene biosynthesis, except LTA4 hydrolase, form a biosynthetic complex assembled at the nuclear membrane, suggesting that leukotrienes may have unknown intranuclear functions related to gene regulation or cell growth (Serhan, C.N., Haeggstrom, J.Z. & Leslie, C.C. Faseb J 10, 1147-58 (1996)).

Leukotriene B4, the natural product of LTA4 hydrolase, is one of the most powerful chemotactic agents known to date and triggers leukocyte adherence and aggregation at only nM concentrations (Ford-Hutchinson, A.W., Bray, M.A., Doig, M.V., Shipley, M.E. & Smith, M.J.H. Nature 286, 264-265 (1980)). Hence, this molecule is regarded as a key mediator of inflammation, and has been implicated in a number of diseases, including arthritis, psoriasis, inflammatory bowel disease (IBD), and chronic obstructive pulmonary disease (COPD). Furthermore, the role of LTB4 in inflammation has been well corroborated by the anti-inflammatory properties of LTA4 hydrolase inhibitors, particularly in combination with a cyclooxygenase inhibitor, and specific LTB4 receptor antagonists, as well as the reduced inflammatory reactions observed in several animal models of leukotriene deficiency (Tsuji, F., Miyake, Y., Enomoto, H., Horiuchi, M., Mita, S. Eur. J. Pharmacol. 346, 81-85, (1998); Chen, X.S., Sheller, J.R., Johnson, E.N. & Funk, C.D. Nature 372, 179-182 (1994); Griffiths, R.J., et al. Proc Natl Acad Sci USA 92, 517-21 (1995); and Griffiths, R.J., et al. J Exp Med 185, 1123-9 (1997)). In addition, LTB4 modulates the immune response, e.g., by interference with specific subsets of lymphocytes, production of cytokines, as well as liberation of immunoglobulins from B-lymphocytes (Payan, D.G., Missirian-Bastian, A. & Goetzl, E.J. Proc Natl Acad Sci USA 81, 3501-5 (1984); Rola-Pleszczynski, M. & Lemaire, I. J Immunol 135, 3958-61 (1985); and Yamaoka, K.A., Claesson, H.E. & Rosen, A. J Immunol 143, 1996-2000 (1989)). Recent data also indicate that LTB4 stimulates, and thus has a crucial role in the regulation of, cell proliferation and cell survival in HL-60 cells, suggesting that LTA4 hydrolase inhibitors may have an anti-proliferative effect. (Dittman, K.H., Mayer, C., Rodemann, H.P., Petrides, P.E., and Denzlinger, C. Leuk. Res. 22, 49-53 (1998)). The cell surface receptor for LTB4 (BLTR) was recently cloned and found to be abundantly expressed in the immune system. including lymphocytes, spleen and thymus (Yokomizo, T., Izumi, T., Chang, K., Takuwa, Y. & Shimuzu, T. Nature 387, 620-624 (1997)). BLTR belongs to a family of chemokine receptors and, interestingly, together with CD4 it was found to be an efficient coreceptor for HIV-1 infection (Owman, C., et al. Proc Natl Acad Sci US

A 95, 9530-4 (1998)). Moreover, LTB4 is also a natural ligand to the nuclear orphan receptor PPARα, suggesting that LTB4 may have intranuclear functions possibly related to lipid homeostasis (Devchand, P.R., et al. Nature 384, 39-43 (1996)).

LTA4 hydrolase is a cytosolic 69 kDa enzyme without any similarity to other soluble or membrane bound xenobiotic epoxide hydrolases (Funk, C.D., et al. Proc Natl Acad Sci U S A 84, 6677-81 (1987)). The enzyme's epoxide hydrolase activity, which generates LTB4, is highly substrate selective accepting only LTA4 and to a small extent the double bond isomers LTA3 and LTA5. Typically, LTA4 hydrolase undergoes suicide inactivation and covalent modification when exposed to LTA4 (Evans, J.F., Nathaniel, D.J., Zamboni, R.J. & Ford-Hutchinson, A.W. J. Biol. Chem. 260, 10966-10970 (1985)). During this process, LTA4 apparently binds to Tyr-378, a residue which also seems to play a role for the formation of the critical cis-trans-trans geometry in the conjugated triene structure of LTB4 (Mueller, M.J., et al. Proc Natl Acad Sci U S A 93, 5931-5935 (1996); and Mueller, M., Andberg, M., Samuelsson, B. & Haeggstrom, J. Z. J. Biol. Chem. 271, 24345-24348 (1996)).

From sequence comparisons with certain metalloproteases and aminopeptidases, a zinc binding motif (HEXXH-X18-E) was unexpectedly found in LTA4 hydrolase (Vallee, B.L. & Auld, D.S. *Proc. Natl. Acad. Sci. USA* 87, 220-224 (1990)). Further studies demonstrated that the enzyme indeed contains one catalytic zinc atom complexed to His295, His299, and Glu318 (Medina, J.F., et al. Proc. Natl. Acad. Sci. USA 88, 7620-7624 (1991)). In addition, a previously unknown peptide cleaving activity was discovered which requires the presence of anions, particularly chloride (Haeggström, J.Z., Wetterholm, A., Medina, J.F. & Samuelsson, B. J Lipid Mediator 6, 1-13 (1993)). Although the endogenous physiological peptidase substrate(s) has not yet been identified, LTA4 hydrolase cleaves certain arginyl di- and tripeptides with very high efficiency (Örning, L., Gierse, J.K. & Fitzpatrick, F.A. J. Biol. Chem. 269, 11269-11273 (1994)). Hence, LTA4 hydrolase can be described as a

bifunctional zinc metalloenzyme with the unique ability to accept both lipid and peptide substrates. Using site-directed mutagenesis, Glu296 and Tyr383 were found to be critical for the peptidase reaction, presumably as a general base and proton donor, respectively (Blomster, M., Wetterholm, A., Mueller, M.J. & Haeggström, J.Z. Eur. J. Biochem. 231, 528-534 (1995); and Wetterholm, A., et al. Proc Natl Acad Sci U SA 89, 9141-9145 (1992)). Since the enzyme's ability to convert LTA4 into LTB4 was not affected by the mutations, the two enzyme activities of LTA4 hydrolase are exerted via non-identical but overlapping active sites. Notably, unlike other enzymes in the leukotriene cascade, LTA4 hydrolase is ubiquitous in mammalian cells and tissues suggesting that it may have other functions presumably related to its peptide cleaving activity.

As a consequence of the identification of LTA₄ hydrolase as a zinc metalloenzyme with a peptidase activity, it was observed that LTA₄ hydrolase is inhibited by bestatin, a general aminopeptidase inhibitor, and captopril, an inhibitor of angiotensin converting enzyme (Örning, L., et al. J. Biol. Chem. 266, 16507-16511 (1991)).

Tsuge et al., (J. Mol. Biol. 238,854-856 (1994)), have described the crystallization of LTA₄ hydrolase. However, despite the well recognized need thereof, the three-dimensional structure of LTA₄ hydrolase has not yet been disclosed. More specifically, the problems that need to be overcome in order to provide such a determination may in brief be explained as follows. There are two major difficulties in obtaining a three-dimensional structure of a protein molecule. The first one is to grow crystals of good quality that are reproducible and diffract to atomic resolution (beyond 2.5Å). This means a thorough and cumbersome investigation of parameters that influence the crystal growth such as pH, temperature, nature of buffers, nature of precipitant, just to mention a few. The addition of ligands such as substrate analogues or inhibitors or the addition of other molecules can be important for obtaining good crystals. There is only little understanding of the physical

background of the crystallisation process which means that the search for suitable crystallisation conditions for a certain protein is unique, requires creativity and intuition, and is governed by trial and error procedures. The purity of the protein is also a crucial parameter in the crystallisation and a suitable degree of purity can be hard, or even imposible, to achieve. The second major difficulty is associated with overcoming the phase-problem which is inherent to X-ray diffraction methods. To be able to overcome this problem it is necessary to substitute the protein with suitable heavy atom substance such as e.g. mercury, gold or platinum compounds. Crystals often cannot withstand the treatment with these compounds and the search for suitable substitutions is not straight forward and may become very exhaustive. Another option is to substitute all methionines by seleno-methionine (Se-Met) residues. This method requires production of recombinant protein in special strains of E. coli under non-standard conditions, followed by a new purification and recrystallisation of the Se-Met containing protein. Although Tsuge et al reported the crystallisation of LTA4 hydrolase, their crystals only diffracted to medium resolution and the phase-problem was not solved. Thus, as a reliable definition of the three-dimensional structure of LTA₄ hydrolase would enable e.g. a display in visual form on a computer screen of the shape of the molecule, then, could the above mentioned problems be solved, a whole range of possibilities would be opened, such as rational structure-based drug design, e.g. in combination with combinatorial chemistry, aimed at production of novel medicaments useful in disorders associated with the leukotriene cascade, as well as protein-engineering to create novel variants of the enzyme with altered, but yet useful, catalytic properties.

As LTA4 hydrolase is a recognized important drug target, some inhibitors thereof have been synthesized (Wetterholm, A., et al. J Pharmacol Exp Ther 275, 31-7 (1995); and Yuan, W., Wong, C., Haeggstrom, J. Z., Wetterholm, A. & Samuelsson, B. J. Am. Chem. Soc., 114, 6552-6553 (1992)). Interestingly, certain inhibitors of LTA4 hydrolase were reported to act also as LTB4 receptor antagonists (Labaudinière R, Hilboll G, Leon-Lomeli A, Terlain B, Cavy F, Parnham M, Kuhl P, and Dereu N. J. Med. Chem. 35, 3170-3179 (1992)). Due to the absence of any

available information regarding the three-dimensional structure of LTA4 hydrolase, as discussed above, none of the previously described inhibitors have been designed based on the exact structure thereof. Accordingly, there is a need within this field of determining the three-dimensional structure of LTA4 hydrolase in order to design more potent and selective inhibitors of LTA4 hydrolase as well as modified structures exhibiting even more advantageous pharmaceutical properties.

2. THE PRESENT INVENTION

As the following chapter includes a substantial amount of text, it has herein been divided into separate sections, each one of which disclose separate aspects of the present invention.

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2.1 Summary of the invention

The object of the present invention is to fulfill the above defined need. This has been achieved by the crystallization and determination of the three-dimensional structure of LTA4 hydrolase complexed with the competitive inhibitor bestatin and subsequent structure determination of complexes between LTA4 hydrolase and two specific inhibitors. It is the first three-dimensional structure of any protein component of the leukotriene cascade and enables a description of the structural basis and molecular mechanisms of various enzyme functions, such as the two catalytic activities of LTA4 hydrolase. In addition, the structural information will now make possible rational design of enzyme inhibitors, which may be developed into clinically useful anti-inflammatory drugs.

2.2 Brief description of the drawings

Figure 1 shows the key enzymes and intermediates in leukotriene biosynthesis. Figure 2 shows 2Fo-Fc density contoured at 1.1 s. Part of the active site in the neighborhood of the bestatin molecules is shown.

Figure 3 is a ribbon diagram of the tertiary structure of leukotriene A4 hydrolase.

Figure 4 (a) is a ribbon diagram of the N-terminal domain.

Figure 5 (a) is a ribbon diagram of the catalytic domain.

Figure 6 shows the structure of the C-terminal domain.

Figure 7 illustrates zinc binding ligands in LTA4 hydrolase.

Figure 8 (a) is a Ball-and-Stick presentation of the binding of bestatin in LTA4 hydrolase.

Figure 8 (b) is a schematic overview of bestatin binding in LTA4 hydrolase.

Figure 9 (a) is a wire representation of the central cavity found in LTA4 hydrolase (shown as $C\alpha$ -trace).

Figure 9 (b) is a schematic presentation for the proposed binding of LTA4 into the cavity.

Figure 10 is a schematic representation for the proposed reaction mechanism of the epoxide hydrolase.

2.3 Definitions

In the present context, the term "the three-dimensional form adopted thereof in nature" is to be understood as the conformational structure, defined by the parameters x, y and z in a conventional coordinate system, that a naturally occurring molecule adapt under conditions where it is capable of exerting its biological activities. The specific conditions during which the herein presented data were collected are detailed in the section "Experimental".

The term "isolated" and variations thereof when used in connection with a molecule, such as protein, a polypeptide or a nucleic acid, means that said molecule is isolated from other substances, such as other proteins, DNA etc normally accompanying it in its natural environment.

The term "leukotriene A₄ (LTA₄) hydrolase" as used herein is to be understood to include any mammalian or other LTA₄ hydrolase which comprises the same backbone as the human form specifically disclosed in the present application, irrespective of source. The amino acid sequences of mammalian LTA₄ hydrolase

have been shown to be identical to about 90%. Thus, the three-dimensional structures thereof may be suspected to be identical to approximately the same extent. "Thiolamine" and "hydroxamic acid" are used herein to denote the compounds examplified in the Experimental section of the present specification.

A "complementary compound" means any compound, the structure of which enables a binding thereof to a specified protein, i.e a compound having a conformation or structure enabling such a suitable fit as to provide an energetically favorable interaction between protein-complementary compound.

"Analogue" means, as used herein, a chemically altered molecule which shares the backbone with, or at least structurally resembles, a "parent molecule". In the present specification, such a "parent molecule" may be LTA₄ hydrolase or an inhibitor thereof.

In the present application, the term "active site" is to be understood to include any region capable of binding a substrate and converting it into product.

The term "nucleic acid" refers to a deoxyribonucleotide or ribonucleotide polymer in either single- or double-stranded form, and unless otherwise limited, encompasses known analogs of nucleotides, that can function in a similar manner as naturally occurring nucleotides.

The phrase "hybridising specifically to" refers to the binding, duplexing, or hybridising of a molecule only to a particular nucleotide sequence under stringent conditions when that sequence is present in a complex mixture (e.g., total cellular) of DNA or RNA. The term "stringent conditions" refers to conditions under which a probe will hybridise to its target subsequence, but to no other sequences. Stringent conditions are sequence-dependent and will be different in different circumstances. Longer sequences hybridise specifically at higher temperatures. Generally, stringent conditions are selected to be about 5°C lower than the thermal melting point Tm for the specific sequence at a defined ionic strength and pH. The Tm is the temperature (under defined ionic strength, pH, and nucleic acid concentration) at which 50% of the probes complementary to the target sequence hybridise to the target sequence at equilibrium. (As the target sequences are generally present in excess, at Tm, 50% of the probes are occupies at equilibrium). Typically, stringent conditions will be those

in which the salt concentration is less than about 1.0 M Na ion, typically about 0.01 to 1.0 M Na ion concentration (or other salts) at pH 7.0 to 8.3 and the temperature is at least about 30°C for short probes (e.g., 10 to 50 nucleotides) and at least about 60°C for long probes (e.g., greater than 50 nucleotides). Stringent conditions may also be achieved with the addition of destabilizing agents such as formamide. "Essentially pure" means herein a purity of at least about 80%, especially at least about 90% and preferably at least about 95%, such as 98-99%. The purity of LTA₄ hydrolase, an analogue or inhibitor thereof is according to the present invention preferably determined by general biochemical and biophysical methods well-known to the skilled in this field. For proteins, SDS polyacrylamide gel electrophoresis (SDS-PAGE) with Coomassie and silver staining or amino acid sequence analysis can be used, whereas high-pressure liquid chromatography (HPLC), gas chromatography coupled to mass spectrometry (GC-MS), and nuclear magnetic resonance spectroscopy (NMR) are suitable methods for small organic molecules (peptides, lipids, or carbohydrates, or combinations of these classes of substances).

2.4 Detailed description of the invention

2.4.1 LTA₄ hydrolase, subsequences and analogues thereof

In a first aspect, the present invention relates to an isolated protein comprising at least a subsequence of the amino acid sequence of leukotriene A_4 (LTA₄) hydrolase, which subsequence has the corresponding three-dimensional form adopted thereof in nature. The protein according to invention as discussed below and elsewhere in this application is also understood to encompass any other functionally equivalent part, derivative or conformational analogue thereof. More specifically, the invention relates to the above disclosed protein which comprises a subsequence of the amino acid sequence of leukotriene A_4 (LTA₄) hydrolase, which is able to participate in, and influence, e.g. by providing enzymatic activity, the leukotriene cascade. Most preferably, the protein according to the invention is capable of controlling said cascade by exerting an enzymatic activity and thus regulate the production of leukotriene B_4 (LTB₄). In a particular embodiment, the protein is comprised of essentially all of the amino acid sequence of leukotriene A_4 (LTA₄) hydrolase as

disclosed in SEQ ID NO 1, or a functionally equivalent part, derivative or conformational analogue thereof.

Thus, the present invention relates to an isolated LTA₄ hydrolase in its naturally ocurring three-dimensional form. More specifically, the present application provides a listing illustrating, for the first time, the coordinates defining human LTA₄ hydrolase complexed to an inhibitor thereof. Thus, the coordinates defining the conformation of LTA₄ hydrolase have been determined by the present inventors as complexed with bestatin, thiolamine and hydroxamic acid, respectively. Bestatin is a universal inhibitor of amino peptidase activity, while the last mentioned two are specific inhibitors of LTA₄ hydrolase. Based on these different activities, said inhibitors may be used as models in the design of novel molecules having desired properties. Methods for such design will be discussed in further detail below as a further advantageous aspect of the invention. For reasons of conveniance for the reader of the present specification, the data collection comprising the novel coordinates according to the invention is included in the present description as a separate section denoted "X-ray data", as Tables 9-11, immediately preceding the claims. In said tables, atom no 1 to atom no 4876 define the LTA₄ hydrolase part of the complex. In table 9, atom no 4882 to atom no 5463 relate to bestatin. (Bestatin has been thorougly discussed in the litterature, see e.g. Mathé, G. Biochem. Pharmacol. 45, 49-54 (1991).) The intervening atoms relate to the metals that bind in LTA₄ hydrolase, i.e. the active site Zn atom and the Yb atoms that were crucial for the present structure determination. The conditions prevailing at the determination thereof will be described in detail in the Experimental section below. As the skilled in this field realises, such coordinates usually exhibit a certain degree of variation, due to e.g. thermal motion and slight differences in crystal packing. Thus, any references herein to Tables 9-11 in connection with the proteins and other molecules are merely intended to illustrate the coordinates defining the conformation of the molecules under identical conditions, as determined by use of the same apparatus and method. Accordingly, this embodiment of the invention is not limited to a molecule having exactly the specified coordinates, but rather to

molecules capable of adopting such a structure. For example, a human LTA₄ hydrolase according to the invention will exhibit a strong bit a conformational similarity with the coordinates presented by atom nos 1 - 4876 of Tables 9-11, wherein a variation of about 1%, or 0.5 Å, may be expected. Accordingly, any such variants are within the scope of the present invention.

As regards amino acid sequence, in a specific embodiment, the protein according to the invention is identical, by direct sequence comparison, to at least about 50%, more specifically, at least about 70%, such as at least about 90%, to the LTA₄ hydrolase as defined by SEQ ID NO. 1 while in the three-dimensional form adopted thereof in nature. In this context, it is noted that the amino acid sequence of LTA₄ hydrolase also appears from the data of Tables 9-11, but is also included as a separate sequence listing for reasons of clarity. The protein of this embodiment of the invention are e.g. variants originating from any species, preferably mammals, such as humans, mice or other rodents, etc. Alternatively, the variants including subsequences of the human sequence are mutated forms, resulting from either spontaneous mutations or deliberately produced mutations, as discussed in more detail below.

One preferred embodiment of the present invention is a protein which comprises at least one of the regions defined below in Tables 1-3 below as active sites.

Table 1: Residues lining the big cavity from outsite to insite

	Left wall	Right wall
1		Lys608, Asp606, Lys605,
		Lys354, Thr355
2	Phe356, Phe362	Gln544, Asp573, Lys572, Arg568
3	Val376	Lys565, Arg540, Leu507

4	Ser380, Ser352, Glu348	Pro569
5	Tyr378, Glu348	Arg563, Glu533, Phe536,
		Arg537, Tyr267
6	Tyr383, Phe314, Glu318, Glu384,	
	Arg326	
7	Gly268, Gly269, Met270	His295, Asn341, Phe340
8	Ser288, His497	Glu325, Asn291

In Table 1, Lys565, Ser380, Pro569, Glu533, Tyr383, Phe314, Glu318, Glu384, Arg326, Gly268, Gly269, Met270, His295, Phe340, Ser288, and Glu325 are strictly conserved amino acids, while Lys608, Phe356, Phe362, Lys572, Arg568, Tyr378, Phe536, Tyr 267, and Asn291 are conserved in nature.

Table 2: Amino-acids in the bestatin binding site ("basic" amino-peptidase site)
The binding of bestatin to LTA₄ hydrolase is described by way of coordinates in
Table 9. Below follows the specific amino acids involved in the binding of bestatin and similar structures.

Gln136

Ala137

Tyr267

Gly268

Gly269

Met270

Glu271

Val292

His295

Glu296

His299

Glu318

Tyr378

Tyr383

Arg563

Lys565

Table 3: Amino acids in the leukotriene binding site

The present amino acids define the site binding leukotriene-based inhibitors, such as thiolamine and hydroxamic acid, as shown in Tables 10 and 11, respectively.

- Gln136
- Ala137
- Tyr267
- Gly268
- Gly269
- Met270
- Glu271
- Val292
- His295
- Glu296
- His299
- Trp315
- Glu318
- Val322
- Phe362
- Val367.
- Leu369
- Pro374
- Asp375
- **Ile372**
- Ala377
- Pro382

Tyr378

Tyr383

Arg563

Lys565

In Tables 1-3 above, the enumeration of the amino acid sequence of LTA₄ hydrolase begin without the initial Met. Thus, compared to SEQ ID NO 1, which includes the initial Met, the amino acid enumeration above is lowered by one. Accordingly, Gln136 above corresponds to Gln 137 of SED ID NO 1, Ala137 above corresponds to Ala 138 of SEQ ID NO 1, etc.

Table 4: General catalytic domain for the M1 class of enzymes Amino acids no. 210-450.

The present region will provide a basis for the development of enzyme inhibitors useful in the control other biological pathways than the leukotriene cascade.

Thus, as regards the above defined region of aminopeptidase activity of LTA₄ hydrolase, the present inventors have surprisingly observed, that said region is in fact universal for all enzymes belonging to the metallohydrolase family denoted M1. Thus, this specific subsequence of LTA₄ hydrolase is encompassed by the present invention as a novel protein *per se*. In addition to the various advantageous uses of subsequences of LTA₄ hydrolase described herein in connection with the leukotriene cascade, this region, which is shared between all M1 enzymes, will find several further applications in connection with other enzymatic pathways. For example, the present region, herein denoted the "M1 region" in order to clarify that it is shared between the M1 enzymes, may advantageously be used to produce synthetic inhibitors, or identify natural inhibitors, of any one of the other M1 enzymes. Such M1 inhibitors will be discussed below when compounds complementary to LTA₄ hydrolase are disclosed.

The above disclosed proteins and peptides comprising subunits of LTA₄ hydrolase are advantageously used e.g. as enzymes or more preferably in methods wherein novel inhibitors of enzymatic activities are identified and/or designed.

2.4.2 Compounds complementary to LTA₄ hydrolase

In a second aspect, the present invention relates to a novel compound defined by a structure substantially complementary to the above described protein, preferably identified by use of the novel LTA₄ hydrolase conformation according to the present invention. The complementary compound is a naturally occurring or synthetic protein, peptide, lipid, carbohydrate or any other organic or inorganic compound. In relation to naturally occurring compounds, it is to be understood that the present invention relates to such compounds as isolated from their natural environment, preferably identifiable by aid of the novel coordinates defining structures according to the invention, as examplified by the complementary compounds used in the complexes shown in Tables 9-11.

In a first embodiment, the present complementary compound is substantially complementary to an enzymatically active site of the protein and is advantageously capable of specifically inhibiting an enzymatic activity of said protein. Thus, in one embodiment, the present compound is substantially complementary to parts, or all, of the "basic" aminopeptidase binding site defined in Table 2 above. Thus, the present compound is an inhibitor capable of specifically inhibiting an aminopeptidase activity of an enzyme, preferably of LTA₄ hydrolase. In an alternative embodiment, the present compound is substantially complementary to parts, or all, of the leukotriene binding site as defined in Table 3 above. Thus, the present compound is an inhibitor capable of specifically inhibiting an epoxide hydrolase activity of an enzyme, preferably of LTA₄ hydrolase. (The inhibition of both aminopeptidase and epoxidase hydrolase is discussed in detail below in the experimental section.) As the present two binding sites of LTA₄ hydrolase overlap in part, a further embodiment is a compound which is complementary to essential parts

of both of the above discussed two binding sites, in part or partially, which thus preferably is an inhibitor of both the discussed activities.

As already mentioned above, one compound which is complementary to an enzymatically active site of LTA₄ hydrolase is a compound complementary to the M1 region thereof and thus capable of partial or total inhibition of the enzymatic activity of LTA₄ hydrolase or any other metallohydrolase belonging to the M1 family. In the present application, such inhibitors will be denoted M1 inhibitors.

As the skilled in this field will realise, the present inhibitors disclosed above need not be compound that inhibit a biological activity completely, but may be capable of exerting a partially inhibiting activity, i.e, lowering the enzymatic activity.

In another embodiment, the present complementary compound is a compound which is also capable of binding to the receptor for the product of an LTA₄ hydrolase, i.e. an LTB₄ receptor, e.g. on a cell, such as a polymorphonuclear leukocyte. Thus, such a compound may be useful as an LTB₄ antagonist whereby the biological effect of LTA₄ hydrolase activity may be regulated. Accordingly, any such LTB₄ antagonist designed and/or identified using the coordinates of LTA₄ hydrolase as presented herein are also encompassed by the present invention.

In another embodiment, the present complementary compound is a compound which, apart from being capable of binding to an active site of LTA4 hydrolase, is also capable of binding to an active site of LTC4 synthase which binds the same substrate as LTA4 hydrolase, i.e. LTA4, and turns it over into LTC4 (cf. Fig 1) and is thus expected to share important structural features with the active site of LTA4 hydrolase. Such a compound may be useful as an inhibitor of LTC4 biosynthesis, whereby the production thereof may be regulated. Accordingly, any such LTC4 synthase inhibitor, designed and/or identified using the coordinates of LTA4 hydrolase, are also encompassed by the present invention.

The specific properties and advantageous uses of the present compounds as well as the design and production of novel LTA₄ hydrolase inhibitors will be described in further detail below in relation to the various methods.

2.4.3 A complex of LTA₄ hydrolase and a complementary compound

In a third aspect, the present invention relates to an isolated complex comprised of a protein as described above and a compound complementary to said protein. Said complementary compound may thus be an inhibitor of one or more of the protein's enzymatic activities, such as an aminopeptidase and/or epoxide hydrolase activity, such as bestatin, hydroxamic acid or thiolamine, or leukotriene B₄ or any analogue thereof, or LTC₄ or any analogue thereof. Examples of complementary compounds are bestatin, thiolamine or hydroxamic acid. In the present context, it is to be understood that the invention also relates to specific regions of said inhibitors, that have never been specifically disclosed for the present purpose, as well as novel inhibitors identified by aid of the present invention. In specific embodiments, the complex according to the invention is composed of LTA₄ hydrolase complexed with bestatin, thiolamine or hydroxamic acid, respectively, as defined by the coordinates presented in Tables 9-11, or any functional fragment, derivative or analogue thereof. As bestatin is aminopeptidase based, further similar and advantageous inhibitors may be developped based on the structural information provided in Table 9, preferably combined with the specification of the binding site of Table 2. Further, as both thiolamine and hydroxamic acid are leukotriene based, the information provided in Tables 10 and 11, preferably combined with the specification of binding site of Table 3, will prove to be an advantageous tool in order to gain more information about such enzymatic binding and thus the development of further novel inhibitors.

Accordingly, the present invention presents for the first time the coordinates defining the three-dimensional structure of a complex of LTA₄ hydrolase and an inhibitor thereof as determined by X-ray crystallography and illustrated in Tables 9-

11. In fact, this is the first time ever to disclose any three-dimensional structure of a protein component of the leukotriene cascade. Due to these novel reliable parameters, the complex as well as the components thereof are readily distinguished from the prior art. Together with biochemical and mutagenetic data, the novel structures will provide the basis for understanding the molecular mechanisms of the aminopeptidase and epoxide hydrolase activities, as well as the enzyme's suicide inhibition. Accordingly, the present invention will open a whole range of new possibilities as regards e.g. identification and/or design of novel biologically active molecules and methods of controlling said cascade, in vivo or in vitro. Consequently, novel advantageous drugs, such as medicaments for the treatment and/or prevention of inflammatory and/or allergic diseases, may be designed, as will be discussed in further detail below.

In the present context, it is to be understood that proteins according to the invention include the naturally ocurring three dimensional forms thereof, separated and isolated from its natural environments, as well as any such protein, wherein deletions, additions and/or substitutions of the amino acid sequence have been made, provided that the three dimensional structure is substantially maintained, as the exerted biological activity is critically dependent upon the particular three-dimensional folding of the protein. The present invention also encompasses any derivative or conformational analogue of the above disclosed proteins, which has a three-dimensional structure essentially as disclosed above, or an effective part thereof having the biological activities discussed in detail below.

2.4.4 Advantageous uses of LTA₄ hydrolase, complementary compounds and complexes thereof

A fourth aspect of the present invention is the use of a protein, a complementary compound or a complex according to to the invention in drug design, such as in molecular modeling, direct structure-based design and/or combinatorial chemistry. Such methods will be disclosed in detail below. The drugs designed using the above

mentioned compounds may be suitable for the treatment and/or prevention of disorders involving acute and chronic inflammatory symtoms, said disorder being selected from the group consisting of arthritis, inflammatory bowel disease (IBD), psoriasis, chronic obstructive pulmonary disease (COPD), and acquired immune deficiency syndrome (AIDS). Further, such a drug may be useed for the treatment and/or prevention of proliferative disorders, such as neoplasias and/or cancer. Alternatively, a drug may be designed which is effective for the treatment and/or prevention of an inflammatory and/or allergic disorders caused by the lethal factor of *Bacillus anthracis*, e.g. anthrax. However, the above mentioned diseases are exemplary and other diseases or conditions not mentioned herein may also be contemplated.

In a further aspect, the present invention relates to the use of a protein having a structure substantially as defined for the LTA₄ hydrolase of the invention, or a part, analogue or derivative thereof, for screening a compound for possible medicinal activity. In the pharmaceutical industry, new or known compounds are routinely screened for new uses employing a variety of known in vitro or in vivo screens. Often such screens involve complex natural substances and are consequently expensive to carry out, and the results may be difficult to interpret. However, the knowledge of the three-dimensional protein structure according to the invention allows a preliminary screening to be carried out on the basis of the threedimensional structure of a region thereof, and the structural similarity of a molecule which is being screened. Such screening can conveniently be carried out using computer modelling techniques, which match the three-dimensional structure of the protein or part thereof with the structure of the molecule being screened. Potential agonist or inhibitor activity may be predicted. As a result, the production efficiency, bioavailability, immunogenicity, stability etc. may be favourably changed with respect to their therapeutic application.

As regards the above disclosed M1 inhibitors, these compounds will presumably find a broader field of application than the other novel inhibitors according to the

invention. Thus, the novel general M1 inhibitors are advantageously used e.g. in models to disclose in further detail other enzymatic pathways. Further, they may also be used in the above mentioned type of methods of drug design etc.

2.4.5 Screening for LTA₄ hydrolase analogues

2.4.5 (a) Method

Accordingly, in another aspect, the invention relates to a method for screening LTA₄ hydrolase analogues that mimic at least a part of the three dimensional structure of LTA₄ hydrolase, which comprises the steps of

- (a) producing a multiplicity of analogue structures of the LTA₄ hydrolase
- (b) selecting an analogue structure represented by a three-dimensional representation wherein the three-dimensional configuration and spatial arrangement of specific regions, preferably involved in ligand binding of said LTA₄ hydrolase, remain substantially preserved.

The coordinates used are general for LTA₄ hydrolase are essentially as illustrated in Tables 9-11, as defined by atom nos 1-4876.

More specifically, analogue structures of LTA4 hydrolase may be screened by their ability to catalyze a particular reaction which may be monitored by chemical physical or immunological means. Furthermore, the analogue structure may be selected from its ability to produce receptor ligands or inhibitors of secondary reactions, which may be monitored directly, as examplified above, via binding assays, enzyme assays, chemical assays, or functional bioassays.

Thus, in one embodiment, the invention relates to a method of screening, wherein one or more analogues exhibiting epoxide hydrolase activity, are screened for. Thus, such a method may be primarily based on the data of Table 10 and 11, wherein the binding of thiolamine and hydroxamic acid to LTA₄ hydrolase is shown, preferably combined with the information of Table 3 regarding the active site of LTA₄

hydrolase. In one embodiment, the invention relates to a method of screening, wherein one or more analogues exhibiting epoxide hydrolase activity, are screened for. In an alternative embodiment, the present method is used to screen for analogues exhibiting aminopeptidase activity, which method is primarily based on the data of Table 9, wherein the binding of bestatin to LTA₄ hydrolase is shown, preferably combined with the information of Table 2 regarding the active site of LTA₄ hydrolase. Thus, the present analogues will comprise a region which is essentially analogue with the regions of LTA₄ hydrolase exhibiting aminopeptidase activity, and/or analogues exhibiting epoxide hydrolase activity are selected.

In an advantageous embodiment of the screening method according to the invention, one or more analogues comprising one or more genetic modifications, as compared to the naturally occurring form of LTA₄ hydrolase, are selected.

2.4.5 (b) Analogues obtainable by the present screening method

Further, the invention also relates to a novel analogue obtainable by the method according to the invention, such as an analogue exhibiting an increased or improved or otherwise modified catalytic activity when compared to the naturally occurring form of LTA₄ hydrolase. Preferably, said catalytic activity is an epoxide hydrolase and/or aminopeptidase activity. Further, the invention relates to an analogue obtainable by the present method and capable of acting as a metallohydrolase, preferably belonging to the M1 class of metallohydrolases.

2.4.5 (c) Mutated forms of LTA₄ hydrolase obtainable by the present screening method

In one advantageous embodiment, the present invention relates to a specified analogue which is a mutated form of LTA₄ hydrolase, which analogue comprises one or more of the mutations defined in the following Tables 5-7, wherein amino acids are given in single letter code. Thus,

Q134G/A/V/L/I/S/T/D/E/N/R/H/K/P/C/M/F/Y/W indicates that residue glutamine

134, using the LTA4 hydrolase numbering scheme, is modified to an alanine, valine, a leucine and so forth.

Table 5: Mutations in the active site

5(1)
5(2)
5(3)
5(4)
5(5)
56)
5(7)
5(8)
5(9)
5(10)
5(11)
5(12)
5(13)
5(14)
5(15)
5(16)
5(17)
5(18)
5(19)
5(20)
5(21)
5(22)
5(23)
·()
5(24)

Y383G/A/V/L/I/S/T/D/E/N/Q/R/H/K/P/C/M/F/W	5(27)
R563G/A/V/L/I/S/T/D/E/N/Q/H/K/P/C/M/F/Y/W	5(28)

More specifically, this embodiment relates to an analogue comprising any combination of at least two mutated amino acids, or any one of the above mentioned sequences of mutations, or any separate one amino acid mutation selected from the group consisting of sequences nos 1-9, 13-15, 17-24, 26 and 28, which are all novel mutations that have never been published before the present application. However, the other sequences not specified above are novel in the present context and thus such specific uses thereof are within the scope of the present invention.

Table 6: Mutations of the curved outside of the N-terminal domain

R17 G/A/V/L/I/S/T/D/N/E/Q/H/K/P/C/M/F/Y/W	6(1)
K19 G/A/V/L/I/S/T/D/N/E/Q/R/H/P/C/M/F/Y/W	6(2)
H20 G/A/V/L/I/S/T/D/N/E/Q/R/K/P/C/M/F/Y/W	6(3)
H22 G/A/V/L/I/S/T/D/N/E/Q/R/K/P/C/M/F/Y/W	6(4)
R24 G/A/V/L/I/S/T/D/N/E/Q/H/K/P/C/M/F/Y/W	6(5)
D28 G/A/V/L/I/S/T/N/E/Q/R/H/K/P/C/M/F/Y/W	6(6)
T33 G/A/V/L/I/S/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(7)
T35 G/A/V/L/I/S/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(8)
G36/A/V/L/I/S/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(9)
T37 G/A/V/L/I/S/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(10)
A39 G/V/L/I/S/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(11)
T41 G/A/V/L/I/S/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(12)
Q43 G/A/V/L/I/S/T/D/N/E/R/H/K/P/C/M/F/Y/W	6(13)
K63 G/A/V/L/I/S/T/D/N/E/Q/R/H/P/C/M/F/Y/W	6(14)
V65 G/A/L/I/S/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(15)
N67 G/A/V/L/I/S/T/D/E/Q/R/H/K/P/C/M/F/Y/W	6(16)
N97 G/A/V/L/I/S/T/D/E/Q/R/H/K/P/C/M/F/Y/W	6(17)
E99 G/A/V/L/I/S/T/D/N/Q/R/H/K/P/C/M/F/Y/W	6(18)

V101 G/A/L/J/S/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(19)
E103 G/A/V/L/I/S/T/D/N/Q/R/H/K/P/C/M/F/Y/W	6(20)
S105 G/A/V/L/I/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(21)
E107 G/A/V/L/I/S/T/D/N/Q/R/H/K/P/C/M/F/Y/W	6(22)
K153 G/A/V/L/I/S/T/D/N/E/Q/R/H/P/C/M/F/Y/W	6(23)
T155 G/A/V/L/I/S/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(24)
T157 G/A/V/L/I/S/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(25)
E159 G/A/V/L/I/S/T/D/N/Q/R/H/K/P/C/M/F/Y/W	6(26)
S161 G/A/V/L/I/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(27)
D175 G/A/V/L/I/S/T/N/E/Q/R/H/K/P/C/M/F/Y/W	6(28)
E177 G/A/V/L/I/S/T/D/N/Q/R/H/K/P/C/M/F/Y/W	6(29)
T178 G/A/V/L/I/S/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(30)
D180 G/A/V/L/I/S/T/N/E/Q/R/H/K/P/C/M/F/Y/W	6(31)
R186 G/A/V/L/I/S/T/D/N/E/Q/H/K/P/C/M/F/Y/W	6(32)
I188 G/A/V/L/S/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(33)
K190 G/A/V/L/I/S/T/D/N/E/Q/R/H/P/C/M/F/Y/W	6(34)
I192 G/A/V/L/S/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	6(35)
K194 G/A/V/L/I/S/T/D/N/E/Q/R/H/P/C/M/F/Y/W	6(36)

Table 7: Mutations at the proline rich region

T359 G/A/V/L/I/S/D/N/E/Q/R/H/K/P/C/M/F/Y/W	7(1)
E358 G/A/V/L/I/S/T/D/N/Q/R/H/K/P/C/M/F/Y/W	7(2)
D443 G/A/V/L/I/S/T/N/E/Q/R/H/K/P/C/M/F/Y/W	7(3)
A446 G/V/L/I/S/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	7(4)
Y449 G/A/V/L/I/S/T/D/N/E/Q/R/H/K/P/C/M/F/W	7(5)
S450 G/A/V/L/I/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	7(6)
P451 G/A/V/L/I/S/T/D/N/E/Q/R/H/K/C/M/F/Y/W	7(7)
G452 /A/V/L/I/S/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	7(8)
I 453 G/A/V/I/S/T/D/N/E/O/R/H/K/P/C/M/F/Y/W	7(9)

P454 G/A/V/L/I/S/T/D/N/E/Q/R/H/K/C/M/F/Y/W	7(10)
P455 G/A/V/L/I/S/T/D/N/E/Q/R/H/K/C/M/F/Y/W	7(11)
I456 G/A/V/L/S/T/D/N/E/Q/R/H/K/P/C/M/F/Y/W	7(12)
K457 G/A/V/L/I/S/T/D/N/E/Q/R/H/P/C/M/F/Y/W	7(13)
P458 G/A/V/L/I/S/T/D/N/E/Q/R/H/K/C/M/F/Y/W	7(14)
N459 G/A/V/L/I/S/T/D/E/Q/R/H/K/P/C/M/F/Y/W	7(15)
Y460 G/A/V/L/I/S/T/D/N/E/Q/R/H/K/P/C/M/F/W	7(16)
D461 G/A/V/L/I/S/T/N/E/Q/R/H/K/P/C/M/F/Y/W	7(17)

2.4.5 (d) Nucleic acids encoding the novel compounds

Further, the invention also relates to an isolated nucleic acid encoding a novel analogue as defined above, that is, including a combination of any at least two of said mutations or one of the novel mutations, as well as a nucleic acid capable of specifically hybridising to a such a nucleic acid. The conditions of specific hybridisation are defined above in the section "Definitions". Further, the invention also relates to any vector or carrier comprising such a nucleotide, such as plasmids, viral vectors, e.g. retrovirus, oligonucleotides etc. Thus, any cell including such a nucleic acid or vector are also within the scope of the present invention and may e.g. be a mammalian cell, such as a human cell, or any other eucaryotic cell, or a procaryotic cell, such as a bacterium. The above mentioned elements may be used in the design of model systems useful in the study of the diseases discussed elsewhere in this application, which systems may be cell cultures, animal models, such as mice, etc.

2.4.6 (a) Production and purification of genetically modified forms of LTA₄ hydrolase

Yet another aspect of the present invention is a process for the production of a novel genetically modified form of LTA₄ hydrolase identified or designed according to the present invention. Thus, the present process involves, after conventional steps of insertion a gene encoding the desired product in a host cell and expression thereof, a purification procedure, which includes a hydroxyapatite-based chromatography and

a subsequent anion exchange chromatography. These last two steps have been shown to be especially advantageous, in fact, even crucial, for obtaining a satisfying purity of the novel LTA₄ hydrolase forms according to the invention. The preceding steps are conventional as disclosed in literature and are easily performed by the skilled in this field.

Thus, in more detail, the invention relates to a method for purification of LTA4 hydrolase comprised of (i) precipitation with ammonium sulphate, followed by (ii) separations on FPLC using anion exchange, hydrophobic interaction, and chromatofocusing resins, essentially as described (Wetterholm A., Medina J.F., Rådmark O., Shapiro R., Haeggström J.Z., Vallee B.L., Samuelsson B. *Biochim. Biophys. Acta.* 1080, 96-102 (1991)). To achieve a purity suitable for crystallography, we used (iii) chromatography on hydroxyapatite, e.g., on a TSKgel HA-1000, Tosohaas, followed by (iv) a step of anion-exchange chromatography on e.g., Mono-Q HR5/5.

Further, example 4 below describes in detail a purification of LTA₄ hydrolase according to the invention. Said example may be generalised to describe further the purification according to the invention.

2.4.6 (b) Purified LTA₄ hydrolase

Further, the invention also relates to an essentially pure form of LTA₄ hydrolase obtained by the process described above.

2.4.7 Screening for LTA₄ hydrolase binding compounds

2.4.7 (a) Method

In yet a further aspect, the present invention relates to a method for screening LTA₄ hydrolase binding compounds complementary to a region, preferably an enzymatically active site, e.g. as defined in Tables 1-3, of the LTA₄ hydrolase molecule, which comprises the steps of

(a) producing a multiplicity of possible complementary structures and

(b) selecting a structure represented by a three-dimensional representation, wherein the three-dimensional configuration and spatial arrangement of regions of LTA₄ hydrolase involved in binding remain substantially preserved, which selection is based on the three-dimensional structure of LTA₄ hydrolase and/or LTA₄ hydrolase complexed to an inhibitor thereof, as defined by the coordinates of Table 9, 10 or 11.

More specifically, the method according to the invention will advantageously be used to select compounds capable of inhibiting epoxide hydrolase activity and/or aminopeptidase activity, LTB₄ receptor antagonists or inhibitors of LTC₄ synthases or inhibitors of any member of the M1 class of metallohydrolases. In one preferred embodiment, general enzyme inhibitors are screened for, which inhibitors are useful in the control of any one of a plurality of enzymatic pathways, wherein a metallohydrolase of the M1 type is participating. These general metallohydrolase inhibitors are herein denoted M1 inhibitors.

Structure-based design of inhibitors

In a further embodiment, the present invention relates to a method of structure-based design of LTA₄ hydrolase inhibitors. Such methods are based on the use of the present coordinates, or preferably the coordinates defining a selected region, as templates in order to synthesize advantageous inhibitors with strong and specific binding properties. More specifically, said method first uses a conventional organic synthesis, alone or combined with combinatorial chemistry, wherein the structure of the product of the synthesis is then further refined by cycles of crystallisation of enzyme and inhibitor, followed by another chemical synthesis, the product of which is again refined, etc.

Example 2 describes such a design, wherein it is noted noted that the removal of an extra carbon atom could yield a compound, which is a better inhibitor than this hydroxamic acid compound. Thus, similar conclusions will be drawn from the present method and result in inhibitors with superior properties compared to any prior art inhibitors.

2.4.7 (b) Identified binding compounds

Further, the present invention also relates to any novel compounds identifiable by the present method. Advantageous and desired properties as well as other features of such compounds, e.g. as inhibitors, is discussed above in relation to complementary compounds, analogues etc. In one preferred embodiment of the invention, such an identified compound is an inhibitor of another M1 enzyme than LTA₄ hydrolase, such as. The medicinal aspects of the present compounds will be discussed below.

2.4.8 Protein engineering

2.4.8 (a) Method

In a further aspect, the present invention relates to a method of engineering a protein, which method comprises the steps of

-identification of a suitable set of mutation sites based on the structure of LTA₄ hydrolase according to the invention,

-generation of a library of genes which contains the suitable sequence variations; -selection of clones encoding a LTA₄ analogue with a desired activity; wherein said desired activity is the capability of efficiently producing organic compounds of interest.

The present method is based on recent techniques available for generating large libraries of mutated genes (>1 billion variants) which can be attributed to a selection process of individual genes in the laboratory. Such directed evolution schemes have enormous potential for the design of new proteins, including new substrate specificity for enzymes as well as improving enzyme activities.

Directed evolution, or combinatorial engineering schemes have been successfully applied in evolving RNA molecules with improved binding and catalytic activities (Lorsch and Szostak, 1994). Also binding proteins (and peptides) with good affinities can now routinely be evolved based on a range of different protein folds (Nord et al, 1997). The present methods may be used to perform such a directed

evolution of advantageous enzyme activity and specificity and may be performed by someone skilled in this field with reference to the literature, see e.g. O. Kuchner and F. H. Arnold (1997); A. Crameri, S.A. Raillard, E. Bermudez and W.P.C. Stemmer (1998).) In this context, see also the descriptions provided in US patent no 5 873 082, Noguchi, wherein a list processing system for managing and processing lists of data is disclosed; US patent no 5 869 295, LaBean et al., disclosing methods and materials for producing gene libraries; and US patent no 5 856 928, disclosing a process for gene and protein representation, characterization and interpretation thereof.

In general, major difficulties in this kind of process are to search the sequence space: find the suitable sequence variations for a large but limited number of mutations (for the same protein fold an immense number of variations can be made e.g. 10 resides protein, 20^{100} variants are in theory possible). It is therefor very important to identify the residues in the protein structure which could effect the activity the most, i.e. the residues near the active site area. Thus, in order to enable a successful performance of a method for engineering proteins with properties relevant in the present field, the data discosed above, more specifically, in Tables 2-4, is crucial.

Further references which are relevent in the context of protein engineering are K. Nord, E. Gunneriusson, J. Ringdahl, S. Stahl, M. Uhlen, P.A. Nygren (1997): "Binding proteins selected from combinatorial libraries of an alpha-helical bacterial receptor domain", *Nature Biotechnology*, 15, 772-777 (1997); R. Lorsch and J.W. Szostak (1994): "In vitro evolution of new ribozymes with polynucleotide kinase activity", *Nature*, 371, 31-36; A. Crameri, S.A. Raillard, E. Bermudez and W.P.C. Stemmer (1998): "DNA shuffling of a family of genes from diverse species accelerates directed evolution", *Nature*, 391, 288-291; and O. Kuchner and F. H. Arnold (1997): "Directed evolution of enzyme catalysts", *Trends in Biotechnology*, 15, 523-530.

In an advantageous embodiment, the present method is used to engineer LTA₄ hydrolase inhibitors and/or analogues. In a specific embodiment of said method, a compound capable of mimicking the suicidal mode of LTA₄ hydrolase catalysis, thus acting as a mechanism-based suicide inhibitor, or otherwise capable of regulating the production of LTB₄ is engineered. In an alternative embodiment, an inhibitor of LTC₄ synthase or an LTB₄ receptor antagonist is designed.

2.4.8 (b) Novel specifically designed proteins

Further, the present invention also relates to any novel protein designed by use of the above described method. Once specified, such proteins may be produced by any conventional method well known to the skilled in this field, some of which are examplified below. In Example 2 below, the binding of hydroxamic acid to LTA4 hydrolase is discussed. Thus, such a modified hydroxamic is one example of a novel inhibitor specifically designed according to the invention, and the resoning in the example may be used as a basis for the way of reasoning that is used in the present design.

Accordingly, novel enzymes may be produced, which are capable of any different chemical activity. For example, enzymes capable of novel catalytic properties, enzymes that in turn produce enzymes, etc., may be produced according to the present invention.

2.4.8 (c) Use of genetically modified LTA₄ hydrolase

The invention also encompasses the use of a genetically modified LTA4 hydrolase, obtained by any method according to the invention, with altered catalytic properties, e.g., increased ability to synthesize LTB4. The modified enzyme may thus be used for production of LTB4, or any analogues substances, a biomedical reagent which in turn may be used in, e.g., studies of leukotriene metabolism, induction of chemotaxis, as a reference compound in analysis of leukotrienes etc.

2.4.9 Pharmaceutical applications of the present invention

2.4.9 (a) First medical indication

Further, the invention also encompasses a compound obtainable by the method of screening LTA₄ hydrolase binding compounds or the protein engineering methods described above, and more preferably, said compound for use as a medicament. One specifically advantageous embodiment is the herein disclosed novel M1 inhibitor for use as a medicament.

In an advantageous embodiment, the present compounds are used in the manufacture of a medicament for the treatment and/or prevention of acute and chronic inflammatory disorders, said disorder being selected from the group consisting of arthritis, inflammatory bowel disease (IBD), psoriasis and chronic obstructive pulmonary disease (COPD); neoplasias and/or cancer; or disorders caused by the lethal factor of *Bacillus anthracis*, e.g. anthrax. Alternatively, the use may relate to the manufacture of a medicament for the treatment and/or prevention of an inflammatory and/or allergenic disorder, such as bronchial asthma, allergic rhinitis, conjunctivitis etc. Yet an alternative use is in the manufacture of a medicament for the treatment and/or prevention of infection caused be human immunodeficiency virus (HIV). The novel M1 inhibitor are preferably used in medicaments for the treatment and/or prevention of such various diseases as cancer and/or endochrinological disturbances.

2.4.9 (b) Second medical indication and pharmaceutical methods

Thus, the present invention relates to the above mentioned molecules prepared by the method according to the invention for use in the manufacture of various medicaments for the above defined conditions. The invention also encompasses pharmaceutical preparations containing these molecules together with pharmaceutically acceptable carriers. Methods for the preparation of pharmaceutical preparations are e.g. found in Remington's Pharmaceutical Sciences, Mack Publishing Company, Philadelphia, PA, 17th ed. (1985). For a review of drug delivery, see Langer, Science 249:1527-1533 (1990). As those skilled in this field

easily realise, the form of such a pharmaceutical preparation, the mode of administration thereof as well as suitable dosages will depend on the specific disease to be treated, the nature of the active substance used, the patient's age, body weight etc.

2.4.9 c) Methods of treatment

The present invention also encompasses any method of treatment for the above defined purposes. Exact details regarding such methods are determined by the practitioner depending on the specific circumstances from case to case.

2.5 Production of novel molecules

The compounds, which may be proteins, polypeptides, peptides or any other organic molecules, prepared according to the methods according to the invention may be synthesized chemically by methods well known to those of skill in this field or they may be prepared by use of recombinant DNA technology by any suitable method well known to those of skill in this field. General methods of synthesis are e.g. found in Berger and Kimmel, Guide to Molecular Cloning Techniques, Methods in Enzymology, vol. 152, Academic Press, Inc., San Diego, CA; Sambrook et al., Molecular Cloning, A Laboratory Manual, 2nd Ed., vol. 1-3, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, 1989; and Current Protocols in Molecular Biology, F.M. Ausbel et al., Current Protocols (1994). Methods of reducing and denaturing proteins and inducing re-folding are well known to those of skill in the art, see e.g. Debinski et al., J. Biol. Chem., 268: 14065-14070 (1993); Kreitman and Pastan, Bioconjug. Chem., 4: 581-585 (1993); and Buchner et al., Anal. Biochem., 205: 263-270 (1992).

2. 6 Detailed description of the drawings

Figure 1 shows key enzymes and intermediates in leukotriene biosynthesis.

Figure 2 shows 2Fo-Fc density contoured at 1.1 σ . Part of the active site in the neighborhood of the bestatin molecules is shown. Figures are created using a modified version of Molscript48,49.

Figure 3 is a ribbon diagram of the tertiary structure of LTA4 hydrolase. The N-terminal domain at the top of the diagram is rich in β -strands and connects to the catalytic domain to the left in the figure which is more α -helical and extends into the central part of the molecule. The C-terminal domain, illustrated at the bottom of the ribbon diagram, extends towards the right side of the catalytic domain.

Figure 4 (a) is a ribbon diagram of the N-terminal domain with its layers of β-strands, while (b) is a superimposition of the Cα trace of the N-terminal domain on the Cα trace of bacteriochlorophyll a. The N-terminal domain covers approx. half of the bacteriochlorophyll a structure (the right and bottom part of the diagram). Figure 5 (a) is a ribbon diagram of the catalytic domain. In the center of the diagram, the three zinc binding ligands, His295, His299, and Glu318, as well as the inhibitor bestatin are depicted in ball and stick representation. The zinc ion is shown as a CPK model. The diagram in (b) shows the structure of thermolysin in the same orientation as the catalytic domain of LTA4 hydrolase. The three zinc ligands, His142, His146, and Glu166, as well as the inhibitor Cbz-GlyP-(O)-Leu-Leu50 are depicted in ball-and stick representation. The zinc ion is shown as a CPK model. Figure 6 shows the structure of the C-terminal domain.

Figure 7 shows the zinc binding ligands in LTA4 hydrolase, His295, His299, and Glu318, superimposed on those in thermolysin, His142, His146, and Glu-166. Other catalytic or neighboring residues in the two enzymes are Tyr383, Glu325, Glu296, Thr302, and Asn317 in LTA4 hydrolase which correspond to His231, Asp170, Glu143, Asn165, and Tyr157 in thermolysin.

Figure 8 (a) is a Ball-and-Stick presentation of the binding of bestatin in LTA4 hydrolase.

Figure 8 (b) is a schematic overview of bestatin binding in LTA4 hydrolase.

Figure 9 (a) is a wire representation of the cavity found in LTA4 hydrolase (shown as $C\alpha$ -trace).

Figure 9 (b) is a schematic presentation for the proposed binding of LTA4 into the cavity.

Figure 10 is a schematic representation for the proposed epoxide hydrolase reaction mechanism. The catalytic zinc acts as a Lewis acid and activates the epoxide to form a carbocation intermediate according to an SN1 reaction. Water is added at C12 in a stereospecific manner, presumably directed by Asp375. The double bond geometry is controlled by the binding conformation of LTA4. Further details are given elsewhere in the present description.

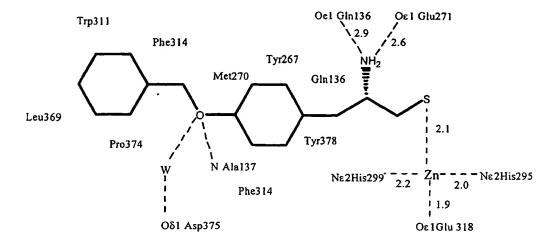
3. EXPERIMENTAL

The following examples are intended for illustrating purposes only and should not in any way be used to construe the scope of the protection of the present invention as defined by the appended claims. All the references given below, and previously in this specification, are hereby included herein by reference.

3.1 Examples

Example 1: Binding of the thiol-compound (I)

The thiol group of the compound is ligated to the Zn²⁺ ion, that has a tetra-hedral configuration. Both the phenyl-groups are making extensive hydrophobic interactions. The first one makes aromatic stacking interactions with Phe314 and Trp311. Further hydrophobic interactions are made with Pro374 and Leu369. The other phenyl ring is making stacking interactions with Tyr267 and Tyr378. Met270 and Gln136 provide additional hydrophobic interactions. The ether-oxygen in the linker between the two phenyl rings makes a hydrogen bond to the backbone nitrogen of Ala137 and also with a water molecule which is linked to Asp375. The amine group makes interactions to the Oɛ1 of Gln136 and the Oɛ1 of Glu271.



Formula (I)

Example 2: Binding of the hydroxamic acid compound (II)

The binding of this compound is very similar to the binding of the thiol compound described above. The manner in which the phenyl-moieties, the linker region and the amine group are bound is identical. The manner in which the hydroxamic acid part is bound is different in comparison with other complexes such as thermolysin-HA complexes and LTA₄-hydrolase-bestatin complex. Instead of a double interaction of the hydroxyl and carbonyl oxygens and the Zn ion resulting in a pentavalent coordination, here only one of the oxygens (the hydroxyl) is making an interaction with the Zn ion giving a tetrahedral co-ordination. The other oxygens make an interaction to Asp296 and the backbone nitrogen of Gly268. This difference is probably due to the tight binding of the phenyl rings and the amine group. The linkage between the amine group and the hydroxamic acid group contains one more carbon atom than in a normal or modified peptide-linkage. Since the binding site for substrates is rather narrow near the Zn ion, the conformation of compounds which bind in this area is rather restricted. Therefore one of the otherwise binding oxygens is pushed out and can no longer make an interaction with the Zn2+ ion. Removal of this extra carbon atom could yield a compound which is a better inhibitor than this hydroxamic acid compound. The acid group at the other end of the compound is fixed by making a double interaction with the NE and the Nh2 of Arg563.

Formula (II)

Example 3: Structure determination of two specific inhibitor-LTA₄ hydrolase complexes

Crystals, grown as described above, were soaked in 1 mM solution of thiolamine (Yuan et al., 1993) or 0.5 mM solution of hydroxamic acid (Hogg et al., 1995) in 15% PEG8000, 50 mM Imidazol pH 6.7, 25 mM acetate and 2.5 mM YbCl3. After at least 24 hours, the crystals were transferred to a solution that contained a cryoprotectant (see above) and subsequently flash frozen in liquid nitrogen. The data for the crystal soaked with thiolamine was obtained at BM14B at the EMBL-outstation in DESY, Hamburg. The data for the hydroxamic acid was collected at beamline 7/11 at MAX-lab, Lund. Statistics from the data collections are shown in the table. The data were processed using MOSFLM, merging and other manipulations were performed by programs from CCP4 and the BIOMOL packages. The refinement procedures for both datasets were very similar. First rigid body refinement using TNT was performed. As a starting model for refinement and model building the structure of LTA4 hydrolase complexed with bestatin was used.

The bestatin molecule and all water molecules were deleted from the model. After this initial refinement it was possible to build the inhibitors into the protein. For evaluation of the density maps and model-building the program QUANTA (Molecular Simulations Inc., Burlington, MA) was used. The refinement was continued using TNT and was combined with sessions of model-building. In all rounds no sigma cut-offs were used and the resolution was slowly increased during the procedure. Water molecules were identified and incorporated into the models. During these procedures the Rfree was carefully monitored. When refinement had converged, it was finished with one round in which all reflections, including those who were used for the calculations of the Rfree, were incorporated. Statistics about refinement and quality of the models can be found in Table 5.

Table: Statistics of refinement and quality of the model

	Thiolamine (Thiol)	Hydroxamic acid (HA)
Resolution	15-2.5Å	15-1.8Å
Rfactor	17.8%	24.2%
Rfree	24.4	29.7%
Bond Lengths	0.011Å	0.012Å
Angles	1.9°	2.0°
Trigonal groups	0.005Å	0.006Å
Planar groups	0.009Å	0.010Å
Contacts	0.026Å	0.041Å
No. of waters	252	127

Example 4: Purification of LTA4 hydrolase.

For adsorption chromatography on hydroxyapatite, a TSKgel HA-1000 column (Tosohaas) was equilibrated in 10 mM potassium phosphate buffer, pH 7.1, supplemented with 0.2 mM CaCl₂. The enzyme sample was applied and a linear gradient of increasing phosphate (10 - 400 mM) was developed by mixing the starting buffer with 400 mM potassium phosphate buffer, pH 6.8, supplemented with 10 µM CaCl₂. Active fractions containing LTA4 hydrolase were eluted between 150 - 190 mM potassium phosphate.

Anion exchange chromatography was performed on a Mono-Q HR 5/5 column (Pharmacia Biotech) equilibrated with the loading buffer 10 mM Tris-Cl, pH 8. The pure protein was eluted using a linear gradient of KCl (0 - 500 mM) and was recovered at 110 - 140 mM KCl.

Example 5: Enzyme engineering

The present inventors have shown, that when Tyr-378 in LTA4 hydrolase was exchanged for a Phe residue, the resulting mutated enzyme was no longer suicide inhibited by LTA4 and exhibited a substantially increased catalytic efficiency. Furthermore, the mutated enzyme was capable of converting LTA4 not only into the natural product LTB4, but also into a novel metabolite, 6-trans-8-cis-LTB4. (Mueller, M.J., et al. Proc Natl Acad Sci USA 93, 5931-5935 (1996)).

Example 6: Enzyme-engineering

Tyr-383 in mouse LTA4 hydrolase was exchanged for Gln residue, which resulted in a mutated enzyme capable of forming the unnatural product 5S, 6S-dihydroxy-7,9-trans-11,14-cis-eicosatetraenoic acid from LTA4 (Andberg, M., Hamberg, M. & Haeggstrom, J.Z. J. Biol. Chem. 272, 23057-23063 (1997)).

Example 7: Crystallisation of LTA₄ hydrolase

LTA₄ hydrolase was crystallised using YbCl₃ as an additive, 15% PEG and 50 mM Na-acetate as precipitant and 50 mM imidazole, pH 6.7, as buffer. Liquid-liquid-diffusion in capillaries were used as crystallisation set-ups.

3.2 Materials and Methods

Enzyme purification. Human recombinant LTA4 hydrolase was expressed in *E. coli* and purified to homogeneity in four chromatographic steps on FPLC using anion exchange, hydrophobic interaction, chromatofocusing, and hydroxyapatite resins, essentially as described (Wetterholm A., Medina J.F., Rådmark O., Shapiro R., Haeggström J.Z., Vallee B.L., Samuelsson B. Recombinant mouse leukotriene A4 hydrolase: a zinc metalloenzyme with dual enzymatic activities. *Biochim. Biophys. Acta.* 1080, 96-102 (1991)).

Crystallization conditions. The chemicals used for the crystallization experiments were purchased from Merck and were of highest purity available. The sparse matrix kit was obtained from Hampton Research. Crystallization conditions for the protein were initially sought by using the sparse matrix approach (Jancarik, J. & Kim, S.-H. J. Appl. Crystallogr. 24, 409-411 (1991)) in hanging drop vapor diffusion set-ups in cell culture plates at room temperature. Under condition 28, (30% PEG8000, 0.2 M sodium-acetate, 0.1 M cacodylate buffer, pH 6.5) needles grew. They were subsequently reproduced and optimized using a finer grid search, different temperatures for the equilibration and testing of additives. Crystals were only obtained when the inhibitor bestatin was present in the crystallization set-ups. Using YbCl3 as an additive and switching to liquid-liquid diffusion in capillaries, allowed plate-like crystals to grow. Thus, 5 µl 28% PEG8000, 0.1 mM Na-acetate, 0.1 mM imidazole buffer, pH 6.8, 5 mM YbCl3 is injected into the bottom of a melting point capillary and an equal volume of LTA4 hydrolase (5 mg/ml) in 10 mM Tris-Cl, pH 8, supplemented with 1 mM bestatin, is layered on top. Finally, the capillary is closed and stored at 22°C. Crystals with an average size of 0.6 x 0.4 x 0.05 mm³ appear in 3 to 4 weeks.

Crystal properties. The plate-like crystals diffract beyond 2Å using synchrotron radiation. They belong to space-group P21212 with cell dimensions a = 67.59 Å, b = 133.51 Å, c = 83.40 Å, $a = b = g = 90 ^{\circ}$ at 100K. As a cryo-solution, a mixture of 15%PEG 8000, 50 mM Na-acetate, 50 mM imidazole buffer, pH 6.8, 2.5 mM YbCl3, and 25% glycerol was used. Assuming one molecule per asymmetric unit the solvent content of the crystals is 48%.

Structure determination. The structure was determined by using multiple anomalous dispersion measurements on the LIII edge of Ytterbium (λ = 1.3862 Å) at beam line BM14 at the European Synchrotron Radiation Facility (ESRF), Grenoble. Three datasets, peak (PK), point of inflection (PI) and remote (RM), were collected to 2.5Å resolution from the same crystal. The crystal was aligned such that Bijvoet equivalent reflections could be collected in one pass of 90° for each wavelength. For RM a subsequent dataset to 2.15Å was collected. A second crystal was used for obtaining a dataset to 1.95Å. (For statistics on data-collection and quality, see table 1). Data were integrated using the program Denzo, scaled to each other using Scalepack (Otwinowski, Z. Data collection and Processing. Proceedings of the ccp4 study weekend. SERC Daresbury Laboratory, Warrington, UK., 56-62 (1993)) and further analyzed using programs from the CCP4 package (Collaborative Computing Project Number 4. Acta Crystallogr. Sect. D 50, 760-763 (1994)).

From Patterson functions one major and one minor Yb position could readily be identified, a third position was identified during heavy atom refinement in difference Fourier maps. The heavy atom parameters were refined using MLPHARE (Otwinowski, Z. Isomorphous replacement anomalous scattering. Proceedings of the CCP4 study weekend. SERC Daresbury Laboratory, Warrington, UK., 80-85 (1991)) and SHARP (de La Fortelle, E. & Bricogne, G. Met. Enzymol. 276, 472-494 (1997)). The final figures of merit was 0.57 to 2.15Å. Phase information was further improved to 2.15Å by solvent flattening using SOLOMON (Abrahams, J.P. & Leslie, A.G.W. Acta Crystallographica D52, 30-42 (1996)) with a solvent content of

43%. The quality of the maps was very good and the entire protein molecule (residue 1-610) could be traced unambiguously. All model building was performed using QUANTA (Molecular simulations). Refinement was started by a run of slowcooling molecular dynamics in XPLOR (Brünger, A.T., Kuriyan, J. & Karplus, M. Science 235, 458-460 (1987)) using the RM dataset to 2.7Å. The three Yb ions were included into the refinement with full occupancy for the first Yb and half occupancy for the two other ions. All subsequent refinement was performed with TNT (Tronrud, D.E., ten Eyk, L.F. & Matthews, B.W. Acta Crystallogr. Sect. A 43, 481-501 (1987)). The same set of reflections (4% of total amount from 25-1.95Å) for the calculation of Rfee (Brünger, A.T. Nature 355, 472-475 (1992)) was maintained throughout all refinement procedures. The resolution was slowly improved by alternating sessions of model-building and refinement. The data for the second crystal to 1.95Å were used for further refinement during which a Zn ion, bestatin, an acetate and an imidazole molecule were identified. Judged from the B-factors these molecules are all fully occupied. 540 water molecules were added to the coordinates. The Rfree was 24.7% and the working R-factor was 18.8% for all data between 25-1.95 Å. In a final round of refinement all data between 25-1.95 Å were included, yielding a final R-factor of 18.5 % for residues 1-610, 3 Yb ions, 1 Zn, 1 bestatin, 1 imidazole, 1 acetate and 540 water molecules. Most of the model is in good density (Fig. 2) except a loop encompassing residues 179 to 184 for which only poor density was obtained. The model has good stereo-chemical parameters (r.m.s bonds =0.010Å, r.m.s angles = 2.2°) and 91.7% of the residues lie in the most favored part of the Ramachandran plot.

4. RESULTS AND DISCUSSION

4.1 Overall structure and domain organization

The leukotriene A4 hydrolase molecule is folded into three domains; an N-terminal domain, a catalytic domain and a C-terminal domain which together form a flat triangular arrangement with approximate dimensions of $85 \times 65 \times 50 \text{ Å}^3$. The overall structure of the enzyme is depicted in figure 3. Although the three domains pack closely and make contact with each other, a deep cleft is formed in between.

4.2 The N-terminal domain is structurally related to bacteriochlorophyll a

The N-terminal domain (residue 1-209) is composed of one 7 stranded mixed bsheet, one 4 and one 3 stranded antiparallel β-sheet. Strands from the larger β-sheet continue into the two smaller \beta-sheets that pack on the edges of the same side of the larger sheet so that a kind of envelope is formed (Fig. 4a & b). The two small βsheets are turned towards the inside of the whole protein while the larger β-sheet is exposed to solvent and forms a large concave surface area. Loops connecting the other strands and hydrophobic residues fill the core of this domain. The N-terminal domain of LTA4 hydrolase shares important structural features with the chlorophyllcontaining enzyme bacteriochlorophyll (Bchl) a (Matthews, B., Fenna, R., Bolognesi, M., Schmid, M. & Olson, J. J. Mol. Biol. 131, 259-285 (1979)). Thus, 111 Ca positions have equivalent positions in the two proteins despite the absence of any sequence identity (Fig. 4b). The domain is about half the size of Bchl a which has a single domain structure without major extensions. Like Bchl a, the shape of the N-terminal domain resembles an envelope (or Taco) with a hollow inside and in Bchl a, 7 bacteriochlorophylls are buried in this cavity. However, the domain is not as hollow as BChl a since loop 135-155, which contains a small helical segment, is turned inwards and fills up the core. In BChl a the equivalent loop (290-305) is positioned more towards the exterior of the protein, thereby leaving space for some of the tertrapyrroles of the bacteriochlorophylls. The large sheet (17 strands) of Bchl a is truncated to only 7 strands in LTA4 hydrolase. Especially the region between residue 35 and 263 of Bchl a has been replaced by a much shorter region in LTA4 hydrolase (res. 45 to 98) that forms the 3 stranded small β-sheet and the edge strand of the larger 7 stranded β-sheet. The structure of the other half of the molecule is almost completely conserved, except the insertion of two extra strands instead of loops in LTA4 hydrolase. The structural homology between Bchl a, a protein involved in light harvesting, and LTA4 hydrolase was certainly unexpected. In LTA4 hydrolase, the function of the N-terminal domain is not yet known, but one may speculate that it participates in binding to hydrophobic molecules or surfaces

with a possible regulatory function. In mammalian 15-lipoxygenase, a similar function was proposed for an N-terminal β-barrel domain with structural homology to a corresponding C-terminal domain in mammalian lipases (Gillmor, S.A., Villasenor, A., Fletterick, R., Sigal, E. & Browner, M.F. *Nature Struc. Biol.* 4, 1003-1009 (1997)).

The connection from the N-terminal to the catalytic domain is very short, a strand from the 4 stranded β-sheet connects into a strand of a 5-stranded anti-parallel β-sheet of the catalytic domain. The two sheets are closely packed and the interface is mainly hydrophobic in character with 14 hydrophobic residues contributing from the N-terminal domain and 11 from the catalytic domain. Hydrogen bonds occur between Gln116 and Ser264, Ser124 and Gln226, the backbone of Ser124 and Glu223, the backbone of Ser151 and Lys309, Lys153 and the backbone of Leu305 and indirectly through a water molecule between Tyr130 and the backbone of Val260. Two salt-bridges between His139 and Asp375 and between Arg174 and Asp257 complete the interactions made in this interface.

4.3 The catalytic domain contains the zinc binding site and is structurally similar to thermolysin

The structure of the catalytic domain (res. 210-450) is surprisingly similar to the structure of thermolysin (Fig. 5a & b) (Holmes, M. & Matthews, B. J. Mol. Biol. 160, 623-639 (1982)). When the amino acid sequence in this domain was compared with that of thermolysin, the sequence identity was found to be very low (essentially confined to the zinc binding motifs). However, the structural homology stretches out over the whole domain. Thus, no less than 146 Ca positions overlap with an r.m.s. deviation of 1.946 Å. Like thermolysin, the catalytic domain consists of two lobes, one mainly a-helical and one mixed a/b lobe. The a-lobe consists of 6 major helices interconnected by long loops containing smaller helical segments, while the a/b lobe has a 5 stranded mixed β -sheet lined with 3 helices on one side. The zinc binding site is found in between the two lobes. Since this domain contains only 245 amino acids and thermolysin contains 314 residues, some truncations have taken place,

especially in the a/b lobe in which the N-terminal extended b structure is truncated and only a mixed 5 stranded β -sheet remains. The changes in the a-lobe are smaller. Here the long meandering loop 181 to 221 has been replaced by a long a-helix and the b-hairpin from 245 to 258 has been deleted.

A loop in extended conformation on the surface of the protein from 451 to 463 connects the catalytic domain with the C-terminal domain. Interestingly, this segment contains a highly conserved proline rich motif P451-G-f-P-P-x-K-P-x-Y460 which bears some resemblance to an SH3 domain recognition sequence. However, the canonical arginine residue is not present on either side of the proline motif. Nevertheless, since this stretch of amino acids is exposed on the surface of the protein, it is still possible that it could serve as an anchoring site for protein-protein interactions.

The C-terminal domain (464-610) is composed of 9 a-helices that form an unusual coil of helices reminiscent of the ones found in lytic transglycosylase⁴⁰ and recently in the armadillo repeat region of b-catenin (Huber, A.H., Nelson, W.J. & Weis, W.I. Cell 90, 871-882 (1997)) (Fig. 6). The helices pack into two layers of parallel helices (5 inner and 4 outer helices) and in an anti-parallel manner between the two layers. The arrangements found in the two other proteins are much larger and form super-helical structures. In the C-terminal domain of LTA4 hydrolase, the arrangement is more straight and has a very compact shape. One of the helices is deformed and one of the interconnecting loops is long and contains a small 310 helix. The domain makes contacts with both the a-lobe of the catalytic domain and one of the edges of the N-terminal domain. It is positioned in a way such that the helices lie perpendicular to the 7 stranded b-sheet of the N-terminal domain and to most of the helices in the catalytic domain. The helices are amphipatic in character, with the hydrophobic sides towards the middle of the domain and hydrophilic residues pointing towards the solvent and into the deep cleft in the middle of the

whole molecule. This side of the cleft is highly polar; 10 Arg and Lys residues and 4 Asp and Glu residues are positioned on this side.

4.4 Zinc coordination

The immediate surroundings of the active site Zn²⁺ ion are very similar in thermolysin and LTA4 hydrolase. The Zn²⁺ is bound between the two lobes and is coordinated by His295, His299, one carboxylic oxygen of Glu318 and the carbonyl and hydroxyl oxygens of the inhibitor bestatin so that a square based pyramid is formed. The two histidines originate from a long a-helix and the glutamate from a neighboring a-helix, all in the a-lobe. Glu296 and Tyr383, two residues implicated in the reaction mechanism for the peptide cleaving activity, are located near the Zn ion. Glu296, the putative general base, is positioned next to the metal ligand His295 and bends over the bestatin molecule and Tyr383, which was described as a proton donor, also makes contact with the bestatin molecule (Figure 8a).

Interestingly, the second layer around the Zn ion shows differences between thermolysin and LTA4 hydrolase. In both enzymes the orientation of the zinc binding ligands is fixed by hydrogen bonds, however the hydrogen bond acceptors are positioned differently. In thermolysin, the Nd1 of His142 is hydrogen bonded to the Od2 of Asp170, while in LTA4 hydrolase the Nd1 of His295 is hydrogen bonded to the Oe1 of Glu325. This residue comes from a structural equivalent to the helix carrying Asp170 in thermolysin, but is shifted half a turn outwards. The Nd1 of His146 in thermolysin is hydrogen bonded to the Od1 of Asn165. This residue is part of the zinc binding signature and is conserved between the two enzymes. However, in LTA4 hydrolase the helix in which this conserved residue is placed has been rotated slightly and Asn317 is no longer making a hydrogen bond to His299. The orientation of His299 is now fixed by a hydrogen bond from the Nd1 to the carbonyl backbone oxygen of Thr302. The Od1 of Asn317 makes instead a hydrogen bond to the backbone amide of Asn381 while the Nd2 makes a hydrogen bond to the hydroxyl group of Tyr200. The last protein-ligand, Glu166 is in

thermolysin hydrogen bonded to Tyr157 and a water molecule, in LTA4 hydrolase, Glu318 is only hydrogen bonded to a water molecule (Fig. 7).

4.5 Bestatin binding

Although the zinc binding site is formed by residues only from the catalytic domain and most catalytic residues also come from this domain, the active site itself is surrounded by loops from all three domains. The binding of bestatin reflects this, since it makes interactions with residues from all three domains. The main interactions of bestatin are made through the carbonyl and hydroxyl oxygens to the Zn atom. Hydrophobic interactions are made between the phenyl moiety and the phenyl rings of Tyr267, Phe316, Tyr378 and Tyr383. Also, Met270 and Gln136 are involved (Fig. 8a). The other end of the inhibitor is pointing towards the solvent, the leucine moiety makes interactions with Val292 and His295, while the carboxylic oxygens make interactions with Arg563 and Lys565 through water molecules as well as hydrogen bonds to the backbone nitrogen atoms of Gly268 and Gly269. Hydrogen bonds are formed between the peptidyl N of bestatin and Oe2 of Glu296 and between the terminal NH2 and the Oe1 of Glu271 and Oe1 of Gln136. The hydroxyl oxygen makes apart from the interaction with the Zn ion also an interaction to the OH of Tyr383. (For schematic overview see Fig. 8b). Tyr378 which gets modified during suicide inactivation sits slightly further away, but makes a hydrogen bond to Tyr383 and some hydrophobic interactions with the phenyl ring of the inhibitor. These two tyrosine are both found on the same stretch of aminoacids that in thermolysin form a long a helix, however in leukotriene hydrolase this helix is interrupted and two turns of the helix are replaced by three residues (378-380) in an extended conformation. The binding of bestatin is quite different as was found in the complex between bestatin and bovine lens leucine amino-peptidase (blLAP) (Burley, S., David, P., Sweet, R., Taylor, A. & Lipscomb, W. J. Mol. Biol. 224, 113-140 (1992)). In that complex, bestatin was bound to the Zn by both the terminal nitrogen and the nonproteinaceous P1 hydroxyl oxygen, while in LTA4 hydrolase the bestatin is bound by the hydroxyl and carbonyl oxygens. The terminal nitrogen is involved in hydrogen bonding to Glu271 and Gln136. These differences could stem from the fact the blLAP is a bimetal protein with a different reaction mechanism. Moreover the binding of bestatin as seen in LTA4 hydrolase is similar with the complexes formed between thermolysin and hydroxamates which also act as bidentate ligands by the hydroxyl and carbonyl oxygens (Holmes, M. & Matthews, B. *Biochemistry* 20 (1981)).

Behind the pocket in which the phenyl ring of bestatin binds, there is a cavity that stretches 15 Å deeper into the protein and is approximately 6 to 7 Å wide. In the present structure this cavity is filled with water molecules. It has however a very hydrophobic nature and is lined with Trp311, Phe314, Trp315 Phe362, Leu365, Val367, Leu369, Pro374, Ala377, Tyr378, and Pro382. Most of these residues are strictly conserved or conserved in nature in all LTA4 hydrolase sequences known up until now, with the exception of Val367, which is replaced by a Gln in the yeast and C. elegans sequences. Interestingly space for this cavity is partly created by the interruption by the extended conformation in the stretch where Tyr378 and Tyr383 are found. One patch of this binding site is quite hydrophilic with Asn134, Asp375 and the OH of Tyr267 clustering together. This bigger cavity could be a binding site for the LTA4 substrate molecule. If the epoxide moiety would bind in a similar way as the carbonyl oxygen of bestatin to the Zn ion, then the hydrophobic tail would fit snugly into the binding site now occupied by the phenyl group of bestatin and would continue into the deeper hydrophobic cavity (Fig. 9a). The other tail would sit in the pocket that is now occupied by the carboxy group of bestatin and it would be long enough for the carboxylic acid to make direct electrostatic interactions with the conserved Arg563 and Lys565.

The replacement of Val367 by Gln as seen in the enzyme from yeast would make the hydrophobic channel shorter and this might be one of the reasons why the yeast enzyme does not have leukotriene A4 epoxide hydrolase activity. The manner in which the leukotriene molecule would bind is similar as what is proposed for binding of arachidonic acid in 15-lipoxygenase (Gillmor, S.A., Villasenor, A.,

Fletterick, R., Sigal, E. & Browner, M.F. *Nature Struc. Biol.* 4, 1003-1009 (1997)) with the hydrophobic end buried inside the protein and the carboxylic acid more towards the surface making interactions with Arg and Lys residues.

The binding of bestatin acts also as a guide for the binding of peptide substrate molecules. From systematic binding studies with tri-peptides it was shown that the enzyme has a strong preference for an arginine residue as the N-terminal residue and for several tri-peptides the enzyme has a kcat/Km ratio 10-fold the kcat/Km for LTA4 (Örning, L., Gierse, J.K. & Fitzpatrick, F.A. *J. Biol. Chem.* 269, 11269-11273 (1994). If we roughly model a peptide in the active site with an N-terminal Arg with the carbonyl oxygen sitting on the place of the hydroxyl group of bestatin, then the Arg side-chain of this residue would sit in the same place as the phenyl group of the bestatin with the guanidinium headgroup interacting with the conserved Asp375 and the OH of Tyr267 and the more hydrophobic Cb, Cd and Cg atoms making similar interactions as the phenyl ring. The terminal aminogroup could make the same electrostatic interaction as the terminal aminogroup of bestatin with Asp271 and Gln136. This mode of binding of bestatin is in contrast with the mode proposed by Örning, since the phenyl ring seems to occupy the S1 pocket. We also propose that the LTA4 substrate molecule is occupying all three pockets, S1, S'1 and S'2.

If the binding mode of peptides in LTA4 hydrolase is compared with the one described for thermolysin, a number of differences are observed. In thermolysin, the peptide molecule is held in place by many interactions to the main chain atoms provides by Asn112, Ala203, Arg203 and Trp115. None of these residues or equivalent residues can be found in the binding site in LTA4 hydrolase. Furthermore, although binding pockets S1 and S'1 are at similar positions as in thermolysin, site S'2 has to be different since its space is occupied by Tyr378 in LTA4 hydrolase. Glu271 and Gln136 and the N-terminal domain are filling up the space into which in thermolysin the upstream peptide binds contributing to the exopeptidase function instead of an endo-peptidase function as in thermolysin.

4.6 Putative Phosphorylation site

Recently specific phosphorylation by a yet unknown specific kinase of Ser415 has been described as means of regulation of LTA4 hydrolase activity in endothelial cells (Rybina, I.V., Liu, H., Gor, Y. & Feinmark, S.J. *J Biol Chem* 272, 31865-71 (1997)). This residue is conserved in all mammalian LTA4 hydrolases and is embedded in a highly homologous stretch of residues. Phosphorylation of this residue seems to inhibit the epoxide hydrolase activity but not the amino-peptidase activity. In the structure this residue is located in a loop connecting two a-helices that lie on the surface of the molecule. The loop itself is located at the back of the enzyme.

4.7 Aminopeptidase activity

The amino-peptidase activity catalyzed by this enzyme has been well studied and many of the important residues have been target for site-directed mutagenesis work. This lead to a proposal in which Glu296 would act as a general base (Wetterholm, A., et al. Proc Natl Acad Sci USA 89, 9141-9145 (1992)) and Tyr383 as a putative proton donor (Blomster, M., Wetterholm, A., Mueller, M.J. & Haeggström, J.Z. Eur. J. Biochem. 231, 528-534 (1995)). In the current complex, these residues are involved in hydrogen bonds with the bestatin molecule. If bestatin binding is seen as a rough analog for the transition state binding, then the interaction of Glu296 with the hydroxyl oxygen of bestatin indicates that this residue could indeed activate a water-molecule for the nucleophilic attack. The role of Tyr383 cannot so easily be confirmed, however its position strongly suggest the role of proton donor. In ther-

molysin the proton donor is His231 and although the Ca position of this residue is 4.1Å removed from the Ca position of Tyr383 in LTA4 hydrolase, the Nd1 is only 1 Å removed from the OH position of Tyr383. The conserved Glu271 could be involved in the exo-protease activity of the protein. Recently, the analogous Glu350 in aminopeptidase N and Glu352 in aminopeptidase A were subject to sitedirected mutagenesis work (Luciani, N., et al. Biochemistry 37, 686-692 (1998); and Vazeux, G., Iturrioz, X., Corvol, P. & Llorenz-Cortez, C. Biochem. J. 334, 407-413 (1998)) and it was observed that mutations of this residue lead to large decreases in the activity in the case of substitutions by conserved amino-acids such as aspartate and glutamine and absence of activity in substitution by alanine. It was concluded that Glu350 belonged to the anionic binding site in that protein. A mechanism based on thermolysin was proposed for aminopeptidase N with a pentavalent transition state with an additional interaction between the free aaminogroup and Glu350. In this structure we can observe such an interaction between Glu271 and the free aminogroup of bestatin. Furthermore the penta-valent coordination of Zn by the His295, His299, Glu318 and the carbonyl and hydroxyl groups of bestatin indicates that this is an equivalent transition state analog complex as determined previously for thermolysin.

From careful sequence alignments and structural insight we can conclude that the enzymes in the M1 family of proteases will share a highly conserved catalytic domain that includes part of the N-terminal domain as we see it in LTA4 hydrolase and the thermolysin-like domain. There is no homology for residues in the C-terminal domain and we believe that this domain is unique for LTA4 hydrolases. We suggest that all proteases belonging to class M1 with the signature HExxH and a Glu 18 residues downstream will function in a similar way to thermolysin.

4.8 Epoxide hydrolase activity

Concerning the epoxide hydrolase activity, much less is known about the functional elements and mechanisms of catalysis. In fact, the prosthetic zinc is the only critical component identified thus far and may potentially assist in the introduction of a water molecule at C12 or in the activation of the epoxide. Although Tyr378 and Tyr383 are important active side residues, none of them is essential for catalysis. A mutation of Tyr378 to Phe protects the enzyme against suicide inhibition, however the specificity of the double bond configuration is partly lost (Mueller, M., Andberg, M., Samuelsson, B. & Haeggstrom, J. J. Biol. Chem. 271, 24345-24348 (1996)) since a novel metabolite with a cis-trans-cis conjugated system can be detected. Thus, Tyr378 is a major binding site for LTA4 during suicide inactivation and seems to play a role for the formation of the correct double bond geometry in the product LTB4. Mutations of Tyr383 abolish the amino-peptidase activity where it has a role as potential proton donor (vide supra) but the epoxide hydrolase activity is only decreased compared to wild-type. It is however implicated in the stereospecific introduction of water during the hydrolysis of LTA4 to LTB4 since these mutants convert LTA4 in both LTB4 and 5 [S],6 [S]-DHETE (Andberg, M., Hamberg, M. & Haeggstrom, J. J. Biol. Chem. 272, 23057-23063 (1997)). Moreover careful analysis of the catalytic properties of enzymes mutated in pos. 383, viz [Y383F], [Y383H] and [Y383Q]LTA4 hydrolase have indicated that the epoxide hydrolase reaction follows an SN1 mechanism.

If one considers the chemistry carried out by LTA4 hydrolase, the enzyme has two major tasks during the hydrolysis of LTA4 to LTB4. First introduction of a water molecule stereospecific at C12 and second to generate a *cis*-double bond Æ6 in the resulting conjugated triene system [cf. Fig. 1]. If LTA4 is modeled into the putative substrate binding pocket as indicated in figure 9b, the catalytic zinc gets close to the epoxide and not C12 of the substrate. Therefore the most likely role of the Zn ion is to act directly as a Lewis acid to activate and open the epoxide ring. This would generate a carbocation, whose charge will be delocalised over the

conjugated triene system from C7 to C12. Since this intermediate has an sp2 hydridized planar configuration at C12, it is in principle open for nucleophilic attack from either side of the molecule. The conserved Asp375 is positioned in such a way that a water molecule bound to it is in "attacking" distance of C12 of a modeled LTA4 molecule, the position into which a hydroxyl group is inserted during the reaction. This will account for the proper stereo-chemical and positional insertion of the hydroxyl-group at C12 in R configuration.

The shape and curvature of the LTA4 binding pocket also gives a clue as to how the enzyme creates the cis double bond at Æ6. Since there is free rotation between the c6 and c7 of LTA4, this bond may be kept in a "pro-cis" configuration in the transition state, which in turn would facilitate the formation of a Æ6-cis double bond form the carbocation intermediate. If LTA4 is modeled in this way, the entire molecule adopts a bent shape, fitting very well with the architecture of the binding pocket (Fig. 9b). Hence, the critical double bond geometry at Æ6 of LTB4 is probably guaranteed by the exact binding conformation of LTA4 at the active side which in turn is governed by all the structural elements participating in substrate binding, including the carboxylate recognition sites, Arg56 and Lys565, the catalytic zinc and the hydrophobic residues lining the pocket. The putative binding cleft for the leukotriene molecule is narrow and bend and thereby favoring LTA4 over other epoxides. The two tyrosines are positioned such that they are in contact with the triple double bond configuration of a modeled LTA4 molecule at the bent of the putative binding pocket and they are hydrogen-bonded to each other. Therefore their position is ideal for guidance in stereo-specificity of the double bond configuration. The loss of specificity for the hydroxyl-incorporation at the C12 position in case of the Tyr383 position can be explained that mutations at this position would possibly create extra space for a water molecule that could attack at the C6 position and thereby form 5 [S],6 [S]-DHETE.

The position of Tyr378 is such that it is in contact with the C6 atom of the modeled LTA4 molecule. If after opening of the epoxide ring the hydroxyl group of Tyr378 instead of a water molecule would attack the carbon-cation at the C6 position, a covalently attached molecule is formed which forms the suicide inhibited complex. In order to check this hypothesis and to obtain more information about the binding-site for leukotriene A4, the structure of this inhibited species would be essential.

In order to exclude the possibility that residues near the active site might have further catalytic roles in the epoxide hydrolase reaction, a thorough investigation of these residues, such as Glu271 and Gln136 has to be started. Furthermore the proposed role of Asp375 in activating a water molecule for the stereospecific attack at C12 has to be investigated.

Accordingly, the present invention has solved the first specific leukotriene converting enzyme, which for the first time reveals the binding mode for leukotriene molecules. Furthermore, insight is provided in a unique active site that harbours two activities using different amino-acids to catalyze different reactions.

5. SEOUENCE LISTING

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<110> Haeggström, Jesper J.Z., et al
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<120> DRUG DESIGN BASED ON THE STRUCTIRE OF LTA4 HYDROLASE
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<210>1

<211>611

<212> PRT

<213> HUMAN

<220>

<223> AMINO ACID SEQUENCE OF HUMAN LEUKOTRIENE A_4 HYDROLASE

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Cys Arg Thr Lys His Leu His Leu Arg Cys Ser Val Asp Phe Thr Arg 20 25 30

Arg Thr Leu Thr Gly Thr Ala Ala Leu Thr Val Gln Ser Gln Glu Asp 35 40 45

Asn Leu Arg Ser Leu Val Leu Asp Thr Lys Asp Leu Thr Ile Glu Lys 50 55 60

Val Val Ile Asn Gly Gln Glu Val Lys Tyr Ala Leu Gly Glu Arg Gln 65 70 75 80

Ser Tyr Lys Gly Ser Pro Met Glu Ile Ser Leu Pro Ile Ala Leu Ser 85 90 95

•	Glu Ile Val Ile Gl 00	u Ile Ser Phe G 105	lu Thr Ser Pro I 110	_ys
Ser Ser Ala Le 115	eu Gln Trp Leu T 12		Thr Ser Gly Ly 125	s Glu
His Pro Tyr Lo	eu Phe Ser Gln C 135	Cys Gln Ala Ile l 14	•	a Ile
Leu Pro Cys C 145	Sln Asp Thr Pro S 150	Ser Val Lys Leu 155	Thr Tyr Thr A	la Glu 160
Val Ser Val Pr	o Lys Glu Leu V 165	Val Ala Leu Met 170	Ser Ala Ile Arg 175	g Asp
<u> </u>	ro Asp Pro Glu A 30	Asp Pro Ser Arg 185	Lys Ile Tyr Ly 190	s Phe
Ile Gln Lys Va 195	al Pro Ile Pro Cys 200	s Tyr Leu Ile Al	a Leu Val Val (205	Gly
Ala Leu Glu S 210	er Arg Gln Ile G 215	-	Leu Val Trp Se 20	r Glu
Lys Glu Gln V 225	al Glu Lys Ser A 230	Ala Tyr Glu Phe 235	Ser Glu Thr G	lu Ser 240
Met Leu Lys I	le Ala Glu Asp I 245	Leu Gly Gly Pro 250	Tyr Val Trp G 255	-
Tyr Asp Leu L	Leu Val Leu Pro 1 60	Pro Ser Phe Pro 265	Tyr Gly Gly M 270	let Glu
Asn Pro Cys L 275	eu Thr Phe Val 2	Thr Pro Thr Let 80	Leu Ala Gly A 285	sp Lys
Ser Leu Ser As 290	sn Val Ile Ala Hi 295	is Glu Ile Ser Hi 300	_	3ly
Asn Leu Val T	hr Asn Lys Thr	Trp Asp His Ph	e Trp Leu Asn	Glu Gly

His Thr Val Tyr Leu Glu Arg His Ile Cys Gly Arg Leu Phe Gly Glu

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- Lys Phe Arg His Phe Asn Ala Leu Gly Gly Trp Gly Glu Leu Gln Asn 340 345 350
- Ser Val Lys Thr Phe Gly Glu Thr His Pro Phe Thr Lys Leu Val Val 355 360 365
- Asp Leu Thr Asp Ile Asp Pro Asp Val Ala Tyr Ser Ser Val Pro Tyr 370 375 380
- Glu Lys Gly Phe Ala Leu Leu Phe Tyr Leu Glu Gln Leu Leu Gly Gly 385 390 395 400
- Pro Glu Ile Phe Leu Gly Phe Leu Lys Ala Tyr Val Glu Lys Phe Ser 405 410 415
- Tyr Lys Ser Ile Thr Thr Asp Asp Trp Lys Asp Phe Leu Tyr Ser Tyr 420 425 430
- Phe Lys Asp Lys Val Asp Val Leu Asn Gln Val Asp Trp Asn Ala Trp
 435
 440
 445
- Leu Tyr Ser Pro Gly Leu Pro Pro Ile Lys Pro Asn Tyr Asp Met Thr 450 455 460
- Leu Thr Asn Ala Cys Ile Ala Leu Ser Gln Arg Trp Ile Thr Ala Lys 465 470 475 480
- Glu Asp Asp Leu Asn Ser Phe Asn Ala Thr Asp Leu Lys Asp Leu Ser 485 490 495
- Ser His Gln Leu Asn Glu Phe Leu Ala Gln Thr Leu Gln Arg Ala Pro 500 505 510
- Leu Pro Leu Gly His Ile Lys Arg Met Gln Glu Val Tyr Asn Phe Asn 515 520 525
- Ala Ile Asn Asn Ser Glu Ile Arg Phe Arg Trp Leu Arg Leu Cys Ile 530 535 540
- Gln Ser Lys Trp Glu Asp Ala Ile Pro Leu Ala Leu Lys Met Ala Thr 545 550 555 560

Glu Gln Gly Arg Met Lys Phe Thr Arg Pro Leu Phe Lys Asp Leu Ala 565 570 575

Ala Phe Asp Lys Ser His Asp Gln Ala Val Arg Thr Tyr Gln Glu His 580 585 590

Lys Ala Ser Met His Pro Val Thr Ala Met Leu Val Gly Lys Asp Leu 595 600 605

Lys Val Asp 610

6. CONFORMATIONAL DATA

Table 9: Structure coordinates of LTA₄ hydrolase-bestatin complex

•									•
CRYST1	67.	585	133	.510	83.4	00 90.0	90.00	90.00	
ORIGX1		1.00	0000	0.0	00000	0.00000	0	0.00000	
ORIGX2		0.00	0000	1.0	00000	0.00000	0	0.00000	•
ORIGX3		0.00	0000	0.0	00000	1.00000	0	0.00000	
SCALE1		0.01		0.0	00000	0.00000	0	0.00000	
SCALE2		0.00			07490	0.00000	0	0.00000	
SCALE3		0.00			00000	0.01199		0.00000	
DCADES		0.00	0000	0.0	00000	0.01133	•	••••	
		Atom	res	. Cha	in No.	×	Y	z	occ B-factor
ATOM	1	N	PRO	Δ	1	-2.496	16.950	65.263	1.00100.00
ATOM	2	CA	PRO		1	-1.236	17.634	65.508	1.00 99.43
	3	C	PRO		1	-1.279	19.127	65.159	1.00 99.95
ATOM	3 4	0	PRO		1	-0.289	19.676	64.664	1.00100.00
ATOM					1		16.885	64.670	1.00100.00
ATOM	5	CB	PRO			-0.177			1.00100.00
ATOM	6	CG	PRO		1	-0.850	15.680	64.020	
ATOM	7	CD	PRO		1	-2.318	15.723	64.426	1.00 99.22
MOTA	8	N	GLU		2	-2.412	19.789	65.446	1.00 90.69
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ATOM	10	C	GLU		2	-1.945	22.313	65.960	1.00 86.73
MOTA	11	0	GLU		2	-2.129	22.438	67.174	1.00 88.87
ATOM	12	CB	GLU	A	2	-4.088	21.530	64.831	1.00 89.80
MOTA	13	CG	GLU	A	2	-4.228	22.312	63.514	1.00 95.02
MOTA	14	CD	GLU	A	2	-3.125	21.962	62.559	1.00100.00
ATOM	15	OE1	GLU	A	2	-2.011	22.486	62.601	1.00 70.64
ATOM	16	OE2	GLU	A	2	-3.487	21.008	61.722	1.00 83.56
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ATOM	18	CA	ILE	A	3	-0.495	24.292	65.914	1.00 69.05
ATOM	19	C	ILE	A	3	-1.215	25.619	65.639	1.00 60.01
ATOM	20	0	ILE	A	3	-1.489	25.975	64.480	1.00 56.74
ATOM	21	CB	ILE		3	1.014	24.323	65.649	1.00 73.58
ATOM	22	CG1	ILE		3	1.560	25.747	65.693	1.00 73.27
ATOM	23	CG2	ILE		3	1.360	23.656	64.319	1.00 79.61
ATOM	24		ILE		3	3.062	25.814	65.946	1.00 75.66
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ATOM	26	CA	VAL		4	-2.266	27.598	66.688	1.00 41.58
ATOM	27	C	VAL		4	-1.472	28.880	66.873	1.00 30.92
ATOM	28	. 0	VAL		4	-0.723	29.061	67.838	1.00 28.33
ATOM	29	СВ	VAL		4	-3.441	27.614	67.680	1.00 45.38
ATOM	30		VAL		4	-4.362	28.831	67.511	1.00 44.59
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					_	-1.727	29.798	65.947	1.00 22.16
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ATOM	38		ASP		5	-0.200	33.672	65.879	1.00 23.73
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ATOM	49	C	CYS		7	-2.514	36.534	66.364	1.00 27.36
ATOM	50	ō	CYS		7	-2.589	37.717	66.031	1.00 24.81
			CYS					67.389	
ATOM	51	CB			7	-0.244	36.638		1.00 19.56
MOTA	52	SG	CYS		7	0.817	36.357	68.834	1.00 23.65
MOTA	53	N	SER		8	-3.077	35.572	65.619	1.00 28.38
MOTA	54	CA	SER		8	-3.820	35.920	64.408	1.00 25.64
ATOM	55	C	SER	Α	8	-5.279	35.549	64.559	1.00 25.67
MOTA	56	0	SER	Α	8	-5.622	34.573	65.244	1.00 20.89
MOTA	57	CB	SER	A	8	-3.286	35.203	63.175	1.00 27.58
MOTA	58	OG	SER	Α	8	-4.110	35.477	62.050	1.00 26.21
MOTA	59	N	LEU	Α	9	-6.127	36.354	63.928	1.00 23.57
MOTA	60	CA	LEU	Α	9	-7.555	36.054	64.006	1.00 24.90
MOTA	61	C	LEU		9	-8.006	35.381	62.706	1.00 26.66
ATOM	62	o	LEU		9	-9.114	34.912	62.612	1.00 28.44
ATOM	63	CB	LEU		9	-8.411	37.332	64.224	1.00 22.92
	64	CG	LEU					65.494	
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ATOM	69	C	ALA	Α	10	-7.559	33.342	60.324	1.00 23.49
ATOM	70	0	ALA	Α	10	-7.321	32.597	61.261	1.00 22.41
ATOM	71	CB	ALA	Α	10	-6.365	35.297	59.334	1.00 18.72
ATOM	72	N	SER	Α	11	-8.066	32.886	59.190	1.00 26.45
MOTA	73	CA	SER	A	11	-8.239	31.460	59.014	1.00 27.04
MOTA	74	С	SER	A	11	-6.821	30.862	58.977	1.00 19.63
ATOM	75	0	SER		11	-5.931	31.368	58.288	1.00 20.98
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		0							
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ATOM	95	OG	SER		14	-5.722	24.269	60.022	1.00 28.63
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						-7.714	26.415		
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ATOM	100	CB	VAL		15	-8.736	26.750	57.064	1.00 33.16
ATOM	101		VAL		15	-9.867	27.390	56.256	1.00 32.75
MOTA	102	CG2	VAL	A	15	-9.232	25.957	58.267	1.00 30.08

			~~~	_			55 406	C4 734	1 00 00 64
MOTA	103	N	CYS		16	-6.856	27.406	54.714	1.00 22.64
MOTA	104	CA	CYS		16	-6.559	28.009	53.440	1.00 25.21
ATOM	105	C	CYS	A	16	-5.237	28.693	53.559	1.00 29.42
ATOM	106	0	CYS	Α	16	-4.779	28.929	54.690	1.00 29.35
ATOM	107	CB	CYS	Α	16	-7.621	28.958	52.872	1.00 29.68
ATOM	108	SG	CYS	Α	16	-7.936	30.421	53.895	1.00 35.74
ATOM	109	N	ARG		17	-4.637	28.959	52.405	1.00 23.28
ATOM	110	CA	ARG		17	-3.332	29.581	52.397	1.00 27.42
		C	ARG			-3.332	30.603	51.288	1.00 29.92
ATOM	111				17				
MOTA	112	0	ARG		17	-3.516	30.317	50.133	1.00 30.00
ATOM	113	CB	ARG		17	-2.205	28.555	52.227	1.00 23.72
ATOM	114	CG	ARG	Α	17	-2.233	27.401	53.201	1.00 21.97
MOTA	115	CD	ARG	Α	17	-1.407	26.256	52.647	1.00 23.54
ATOM	116	NE	ARG	Α	17	-0.812	25.328	53.619	1.00 61.25
ATOM	117	CZ	ARG	A	17	-1.432	24.397	54.351	1.00 74.57
MOTA	118	NH1	ARG	Α	17	-2.727	24.196	54.302	1.00 81.15
ATOM	119		ARG		17	-0.734	23.629	55.172	1.00 66.19
ATOM	120	N	THR		18	-2.752	31.787	51.640	1.00 19.72
ATOM	121	CA	THR		18	-2.591	32.805	50.644	1.00 16.81
							32.493		1.00 26.15
MOTA	122	C	THR		18	-1.334		49.887	
MOTA	123	0	THR		18	-0.323	32.299	50.512	1.00 28.80
MOTA	124	CB	THR		18	-2.466	34.204	51.296	1.00 25.57
ATOM	125	OG1	THR	Α	18	-3.626	34.537	52.038	1.00 29.71
ATOM	126	CG2	THR	Α	18	-2.186	35.291	50.261	1.00 23.47
ATOM	127	N	LYS	Α	19	-1.361	32.518	48.568	1.00 23.41
ATOM	128	CA	LYS	Α	19	-0.185	32.210	47.806	1.00 21.13
ATOM	129	C	LYS	Α	19	0.459	33.389	47.154	1.00 22.88
ATOM	130	0	LYS	Α	19	1.643	33.365	46.806	1.00 26.65
ATOM	131	CB	LYS		19	-0.542	31.198	46.727	1.00 29.31
ATOM	132	CG	LYS		19	-1.357	30.002	47.207	1.00 38.67
ATOM	133	CD	LYS		19	-0.856	29.376	48.505	1.00 83.39
			LYS		19	0.228	28.313	48.317	1.00100.00
MOTA	134	CE							1.00100.00
MOTA	135	NZ	LYS		19	0.082	27.127	49.186	
MOTA	136	N	HIS		20	-0.334	34.419	46.949	1.00 19.69
ATOM	137	CA	HIS		20	0.217	35.576	46.285	1.00 19.81
ATOM	138	С	HIS		20	-0.586	36.810	46.644	1.00 28.29
ATOM	139	0	HIS		20	-1.767	36.712	47.018	1.00 30.86
ATOM	140	CB	HIS	A	20	0.093	35.392	44.758	1.00 17.26
MOTA	141	CG	HIS	A	20	0.795	36.466	44.024	1.00 19.73
ATOM	142	ND1	HIS	Α	20	2.171	36.455	43.885	1.00 22.73
MOTA	143	CD2	HIS	A	20	0.305	37.600	43.437	1.00 20.99
MOTA	144	CE1	HIS	A	20	2.491	37.554	43.201	1.00 21.23
ATOM	145	NE2	HIS	А	20	1.386	38.269	42.903	1.00 20.99
MOTA	146	N	LEU		21	0.073	37.954	46.508	1.00 25.18
ATOM	147	CA	LEU		21	-0.585	39.209	46.747	1.00 28.41
MOTA	148	C	LEU		21	-0.211	40.147	45.656	1.00 28.28
		0	LEU		21	0.974	40.321	45.363	1.00 26.48
MOTA	149								
ATOM	150	CB	LEU		21	-0.249	39.882	48.102	1.00 32.02
MOTA	151	CG	LEU		21	-0.533	41.395	48.217	1.00 34.40
MOTA	152		LEU		21	-1.979	41.712	48.615	1.00 30.29
ATOM	153	CD2	LEU		21	0.389	42.000	49.268	1.00 32.78
ATOM	154	N	HIS	Α	22	-1.244	40.728	45.062	1.00 28.64
ATOM	155	CA	HIS	Α	22	-1.000	41.741	44.057	1.00 30.85
MOTA	156	C	HIS	Α	22	-1.517	43.012	44.701	1.00 30.38
MOTA	157	0	HIS		22	-2.696	43.102	45.056	1.00 30.58
ATOM	158	СВ	HIS		22	-1.554	41.551	42.611	1.00 31.85
ATOM	159	CG	HIS		22	-1.182	42.743	41.778	1.00 32.51
	160		HIS		22	-2.120	43.577	41.209	1.00 35.74
ATOM	100	MDT	1172	~	44	-2.120	43.3//	41.203	2.00 33.74

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ATOM	161		HIS		22	0.035	43.261	41.489	1.00 3685
MOTA	162		HIS		22	-1.463	44.545	40.580	1.00 36.22
ATOM	163	NE2	HIS	A	22	-0.152	44.400	40.736	1.00 37.12
MOTA	164	N	LEU	Α	23	-0.583	43.938	44.898	1.00 29.56
ATOM	165	CA	LEU	A	23	-0.842	45.192	45.558	1.00 30.11
ATOM	166	С	LEU	A	23	-0.590	46.398	44.661	1.00 32.22
ATOM	167	0	LEU		23	0.486	46.685	44.121	1.00 32.37
MOTA	168	CB	LEU		23	-0.018	45.260	46.884	1.00 30.21
ATOM	169	CG	LEU		23				
						-0.410	46.274	47.982	1.00 33.02
MOTA	170		LEU		23		47.343	48.117	1.00 32.82
MOTA	171		LEU		23	-1.745	46.956	47.745	1.00 38.23
ATOM	172	N	ARG		24	-1.656	47.133	44.534	1.00 34.49
ATOM	173	CA	ARG	A	24	-1.632	48.369	43.784	1.00 38.52
ATOM	174	С	ARG	Α	24	-2.194	49.370	44.783	1.00 40.35
ATOM	175	0	ARG	Α	24	-3.268	49.139	45.369	1.00 36.87
ATOM	176	CB	ARG	Α	24	-2.487	48.307	42.521	1.00 45.90
ATOM	177	CG	ARG		24	-1.833	47.544	41.371	1.00 63.78
ATOM	178	CD	ARG		24	-2.551	47.750	40.046	1.00 88.27
ATOM	179	NE	ARG		24	-3.826			
							47.027	39.967	1.00 96.90
ATOM	180	CZ	ARG		24	-5.046	47.558	40.154	1.00100.00
ATOM	181		ARG		24	-5.263	48.853	40.383	1.00100.00
MOTA	182	NH2	ARG	Α	24	-6.104	46.743	40.069	1.00100.00
ATOM	183	N	CYS	A	25	-1.426	50.431	45.031	1.00 39.47
MOTA	184	CA	CYS	Α	25	-1.849	51.420	46.022	1.00 37.37
ATOM	185	С	CYS	Α	25	-1.146	52.736	45.798	1.00 36.83
ATOM	186	0	CYS	Α	25	-0.142	52.824	45.066	1.00 33.74
MOTA	187	CB	CYS	Α	25	-1.530	50.963	47.475	1.00 35.76
ATOM	188	SG	CYS		25	0.259	50.957	47.818	1.00 38.00
ATOM	189	N	SER		26	-1.713	53.740	46.463	1.00 36.43
ATOM	190	CA	SER		26	-1.142	55.075	46.417	1.00 38.33
ATOM	191	C	SER		26	-0.971	55.634	47.816	1.00 30.93
		0							
ATOM	192		SER		26	-1.815	55.443	48.713	1.00 29.52
ATOM	193	CB	SER		26	-1.828	56.089	45.502	1.00 49.53
ATOM	194	OG	SER		26	-0.941	57.173	45.231	1.00 58.28
ATOM	195	N	VAL		27	0.151	56.326	47.925	1.00 30.23
ATOM	196	CA	VAL	A	27	0.555	56.974	49.156	1.00 31.98
MOTA	197	C	VAL	A	27	0.120	58.438	49.259	1.00 34.81
ATOM	198	0	VAL	A	27	0.708	59.320	48.614	1.00 36.20
ATOM	199	CB	VAL	A	27	2.056	56.797	49.389	1.00 36.39
ATOM	200	CG1	VAL	Α	27	2.402	57.292	50.802	1.00 36.16
ATOM	201	CG2	VAL	A	27	2.392	55.309	49.226	1.00 34.26
ATOM	202	N	ASP		28	-0.915		-	1.00 32.47
ATOM	203	CA	ASP		28	-1.391	60.061	50.283	1.00 32.12
		C	ASP		28	-0.872	60.655	51.590	1.00 32.12
ATOM	204								
ATOM	205	0	ASP		28	-1.385	60.375	52.668	1.00 27.16
ATOM	206	CB	ASP		28	-2.908	60.186	50.345	1.00 35.00
ATOM	207	CG	ASP		28	-3.313	61.619	50.120	1.00 53.22
ATOM	208	OD1	ASP	A	28	-2.651	62.584	50.471	1.00 49.41
ATOM	209	OD2	ASP	Α	28	-4.427	61.711	49.443	1.00 71.15
MOTA	210	N	PHE	A	29	0.151	61.476	51.445	1.00 26.90
ATOM	211	CA	PHE	A	29	0.824	62.141	52.517	1.00 30.95
ATOM	212	C	PHE		29	0.030	63.292	53.087	1.00 46.44
MOTA	213	0	PHE		29	0.319	63.796	54.155	1.00 49.29
ATOM	214	CB	PHE		29	2.100	62.723	51.935	1.00 35.58
ATOM	215	CG	PHE		29	3.276	61.805	52.080	
						,			1.00 42.10
ATOM	216		PHE		29	3′.676	61.428	53.360	1.00 46.10
ATOM	217		PHE		29	3.981	61.318	50.978	1.00 48.22
ATOM	218	CE1	PHE	A	29	4.765	60.586	53.561	1.00 44.91

ATOM	219	CE2	PHE	A	29	5.073	60.468	51.159	1.00 52.10
MOTA	220	cz	PHE	A	29	5.465	60.115	52.451	1.00 47.34
ATOM	221	N	THR	Α	30	-0.968	63.747	52.360	1.00 48.35
MOTA	222	CA	THR	Α	30	-1.739	64.842	52.861	1.00 45.84
ATOM	223	C	THR	Α	30	-2.775	64.261	53.763	1.00 44.97
ATOM	224	0	THR	A	30	-3.096	64.772	54.823	1.00 49.48
ATOM	225	CB	THR	A	30	-2.404	65.608	51.725	1.00 55.54
MOTA	226	OG1	THR	Α	30	-1.559	66.700	51.398	1.00 68.26
MOTA	227	CG2	THR	Α	30	-3.777	66.061	52.205	1.00 46.96
ATOM	228	N	ARG	A	31	-3.283	63.147	53.323	1.00 32.80
MOTA	229	CA	ARG	A	31	-4.268	62.480	54.132	1.00 32.20
MOTA	230	C	ARG		31	-3.634	61.456	55.067	1.00 32.13
MOTA	231	ō	ARG		31	-4.409	60.864	55.817	1.00 25.23
ATOM	232	CB	ARG		31	-5.159	61.629	53.241	1.00 35.88
ATOM	233	CG	ARG		31	-6.462	62.306	52.863	1.00 66.91
		CD	ARG		31	-6.539	62.672	51.392	1.00 93.56
ATOM	234				31		63.825	51.011	1.00 98.33
ATOM	235	NE	ARG			-5.721		50.328	1.00 89.65
ATOM	236	CZ	ARG		31	-6.218	64.857		1.00 51.14
ATOM	237		ARG		31	-7.498	64.895	49.977	
ATOM	238	NH2	ARG		31	-5.436	65.878	49.985	1.00 74.59
ATOM	239	N	ARG		32	-2.297	61.231	54.941	1.00 31.30
MOTA	240	CA	ARG		32	-1.532	60.215	55.692	1.00 32.00
ATOM	241	C	ARG		32	-2.237	58.877	55.522	1.00 35.90
ATOM	242	0	ARG		32	-2.616	58.213	56.497	1.00 26.95
MOTA	243	CB	ARG		32	-1.207	60.481	57.169	1.00 26.70
MOTA	244	CG	ARG	Α	32	-1.154	61.960	57.566	1.00 62.26
ATOM	245	CD	ARG	Α	32	0.170	62.511	58.124	1.00 84.61
MOTA	246	NE	ARG	A	32	0.480	62.134	59.510	1.00 72.60
MOTA	247	CZ	ARG	A	32	1.452	62.642	60.280	1.00 62.89
MOTA	248	NH1	ARG	Α	32	2.263	63.606	59.881	1.00 47.22
MOTA	249	NH2	ARG		32	1.636	62.159	61.505	1.00 34.21
MOTA	250	N	THR		33	·-2.450	58.522	54.252	1.00 32.05
MOTA	251	CA	THR		33	-3.137	57.281	53.939	1.00 31.81
ATOM	252	С	THR		33	-2.518	56.516	52.788	1.00 38.17
ATOM	253	0	THR		33	-1.863	57.045	51.884	1.00 40.95
ATOM	254	CB	THR		33	-4.604	57.441	53.507	1.00 40.71
MOTA	255	OG1			33	-4.727	58.394	52.471	1.00 49.59
ATOM	256	CG2	THR		33	-5.598	57.635	54.638	1.00 36.31
ATOM	257	N	LEU		34	-2.804	55.231	52.887	1.00 36.61
ATOM	258	CA	LEU		34	-2.446	54.238	51.916	1.00 37.65
ATOM	259	C	LEU		34	-3.787	53.723	51.432	1.00 30.48
ATOM	260	0	LEU		34	-4.667	53.249	52.175	1.00 31.53
ATOM	261	CB	LEU		34	-1.595	53.099	52.497	1.00 39.99
MOTA	262	CG	TEU		34	-0.159	53.091	52.033	1.00 44.09
MOTA	263		LEU		34	0.279	51.634	52.017	1.00 42.13
ATOM	264		LEU		34	-0.102	53.656	50.627	1.00 52.70
ATOM	265	N	THR		35	-3.963	53.889	50.149	1.00 29.30
ATOM	266	CA	THR		35	-5.230	53.461	49.625	1.00 34.60
MOTA	267	C	THR	Α	35	-5.039	52.558	48.420	1.00 39.30
MOTA	268	0	THR	Α	35	-4.116	52.754	47.594	1.00 36.72
MOTA	269	CB	THR		35	-5.983	54.705	49.146	1.00 62.16
ATOM	270	OG1	THR	A	35	-6.129	55.655	50.184	1.00 63.09
ATOM	271	CG2	THR	A	35	-7.320	54.270	48.569	1.00 67.46
ATOM	272	N	GLY	A	36	-5.923	51.576	48.315	1.00 33.04
ATOM	273	CA	GLY	A	36	-5.736	50.731	47.162	1.00 32.58
ATOM	274	С	GLY	A	36	-6.472	49.414	47.226	1.00 29.34
MOTA	275	0	GLY	A	36	-7.502	49.276	47.901	1.00 29.27
MOTA	276	N	THR	A	37	-5.871	48.454	46.512	1.00 29.27

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ATOM	277	CA	THR		37	-6.422	47.099	46.445	1.00 30.12
MOTA	278	С	THR		37	-5.399	46.039	46.733	1.00 27.15
MOTA	279	0	THR		37	-4.260	46.093	46.280	1.00 29.53
MOTA	280	CB	THR	Α	37	-6.985	46.710	45.065	1.00 29.58
ATOM	281	OG1	THR	Α	37	-6.019	47.050	44.078	1.00 35.41
ATOM	282	CG2	THR	Α	37	-8.267	47.478	44.850	1.00 34.18
ATOM	283	N	ALA	A	38	-5.911	45.069	47.445	1.00 25.51
ATOM	284	CA	ALA	Α	38	-5.117	43.938	47.811	1.00 28.59
ATOM	285	C	ALA		38	-5.727	42.723	47.142	1.00 28.95
ATOM	286	0	ALA		38	-6.743	42.181	47.580	1.00 29.76
ATOM	287	СВ	ALA		38	-5.053	43.783	49.332	1.00 28.09
			ALA						
MOTA	288	N			39	-5.087	42.281	46.069	1.00 29.16
MOTA	289	CA	ALA		39	-5.595	41.098	45.400	1.00 28.96
MOTA	290	С	ALA		39	-4.856	39.897	45.952	1.00 32.32
ATOM	291	0	ALA		39	-3.656	39.721	45.724	1.00 31.17
ATOM	292	CB	ALA	Α	39	-5.360	41.169	43.908	1.00 28.71
MOTA	293	N	LEU	Α	40	-5.592	39.103	46.706	1.00 29.20
MOTA	294	CA	LEU	A	40	-5.003	37.945	47.317	1.00 30.98
ATOM	295	С	<b>LEU</b>	A	40	-5.327	36.648	46.592	1.00 34.18
ATOM	296	0	LEU	Α	40	-6.498	36.316	46.393	1.00 32.36
ATOM	297	CB	LEU	Α	40	-5.554	37.761	48.760	1.00 31.07
ATOM	298	CG	LEU	Α	40	-5.397	38.943	49.718	1.00 31.64
ATOM	299	CD1	LEU		40	-5.822	38.486	51.108	1.00 28.47
MOTA	300		LEU		40	-3.944	39.386	49.725	1.00 21.87
ATOM	301	N	THR		41	-4.311	35.861	46.263	1.00 21.07
ATOM	302	CA	THR		41				
						-4.632	34.568	45.683	1.00 30.42
ATOM	303	C	THR		41	-4.602	33.586	46.837	1.00 35.30
MOTA	304	0	THR		41	-3.571	33.422	47.482	1.00 34.05
MOTA	305	CB	THR		41	-3.679	34.105	44.584	1.00 42.24
ATOM	306	OG1	THR		41	-3.701	35.078	43.562	1.00 39.08
ATOM	307	CG2	THR		41	-4.097	32.709	44.090	1.00 29.36
MOTA	308	N	VAL		42	-5.752	32.982	47.091	1.00 30.50
ATOM	309	CA	VAL		42	-5.944	32.058	48.180	1.00 30.58
MOTA	310	С	VAL	A	42	-6.186	30.625	47.728	1.00 38.17
MOTA	311	0	VAL	A	42	-6.913	30.370	46.764	1.00 37.98
MOTA	312	CB	VAL	A	42	-7.074	32.551	49.091	1.00 31.60
MOTA	313	CG1	VAL	Α	42	-7.339	31.536	50.190	1.00 30.16
ATOM	314	CG2	VAL	A	42	-6.681	33.877	49.750	1.00 31.76
ATOM	315	N	GLN	A	43	-5.570	29.690	48.453	1.00 30.27
ATOM	316	CA	GLN	A	43	-5.721	28.291	48.163	1.00 28.24
ATOM	317	C	GLN	Α	43	-6.374	27.521	49.293	1.00 30.98
ATOM	318	0	GLN	A	43	-5.906	27.495	50.437	1.00 30.47
MOTA	319	CB	GLN		43	-4.376	27.685	47.751	1.00 30.68
ATOM	320	CG	GLN		43	-4.447	26.152	47.645	1.00 44.61
ATOM	321	CD	GLN		43	-3.066		47.505	1.00 49.18
MOTA	322		GLN		43	-2.652	25.101	46.429	1.00 53.81
ATOM	323	NE2			43	-2.341	25.541	48.608	1.00 35.81
ATOM	324	N	SER		44	-7.497		48.985	1.00 25.18
ATOM	325	CA	SER		44		26.107	49.989	1.00 20.91
ATOM	326	C	SER		44		24.853	50.329	1.00 32.88
MOTA	327	0	SER		44		24.358	49.493	1.00 35.47
MOTA	328	CB	SER		44	-9.552	25.704	49.511	1.00 22.65
MOTA	329	OG	SER		44	-10.157		50.512	1.00 31.76
MOTA	330	N	GLN		45	-7.630	24.344	51.546	1.00 29.62
MOTA	331	CA	GLN	A	45	-7.006	23.114	52.035	1.00 30.38
ATOM	332	C	GLN	Α	45	-8.085	22.147	52.497	1.00 38.25
ATOM	333	0	GLN	A	45	-7.848	21.077	53.083	1.00 33.96
MOTA	334	CB	GLN	A	45	-6.126	23.384	53.276	1.00 30.97

MOTA	335	CG	GLN	Δ	45	-5.209	24.589	53.105	1.00 19.22
ATOM	336	CD	GLN		45	-4.264	24.414	51.939	1.00 44.80
	337	OE1			45	-4.199	25.228	50.995	1.00 46.26
ATOM								52.002	1.00 28.67
ATOM	338	NE2	GLN		45	-3.520	23.319		
MOTA	339	N	GLU		46	-9.295	22.622	52.280	1.00 38.36
MOTA	340	CA	GLU		46	-10.494	21.931	52.674	1.00 41.96
MOTA	341	C	GLU		46	-11.465	21.892	51.512	1.00 44.78
MOTA	342	0	GLU	A	46	-11.482	22.772	50.648	1.00 38.52
MOTA	343	CB	GLU	Α	46	-11.225	22.681	53.828	1.00 44.36
ATOM	344	CG	GLU	Α	46	-10.440	22.959	55.132	1.00 56.09
ATOM	345	CD	GLU	Α	46	-11.309	23.520	56.226	1.00 70.52
ATOM	346	OE1	GLU	A	46	-12.359	24.099	55.997	1.00 65.91
ATOM	347	OE2	GLU	A	46	-10.822	23.315	57.432	1.00 89.95
ATOM	348	N	ASP	A	47	-12.301	20.871	51.516	1.00 45.87
ATOM	349	CA	ASP		47	-13.287	20.831	50.474	1.00 49.24
ATOM	350	C	ASP		47	-14.443	21.658	50.966	1.00 50.94
ATOM	351	ō	ASP		47	-14.693	21.733	52.167	1.00 50.75
	352	СВ	ASP		47	-13.770	19.400	50.251	1.00 53.61
ATOM								49.621	1.00 33.01
ATOM	353	CG	ASP		47	-12.685	18.588		
ATOM	354		ASP		47	-12.004	19.005	48.689	1.00 70.46
MOTA	355		ASP		47	-12.545	17.420	50.206	1.00 90.87
ATOM	356	N	asn		48	-15.152	22.285	50.059	1.00 48.17
MOTA	357	CA	ASN	A	48	-16.290	23.066	50.491	1.00 48.03
ATOM	358	С	asn		48	-15.954	24.303	51.298	1.00 44.92
MOTA	359	0	ASN	Α	48	-16.641	24.644	52.272	1.00 40.67
ATOM	360	CB	ASN	Α	48	-17.289	22.225	51.310	1.00 44.29
ATOM	361	CG	ASN	Α	48	-18.688	22.771	51.105	1.00 86.53
ATOM	362	OD1	ASN	Α	48	-19.012	23.236	49.996	1.00 80.31
ATOM	363	ND2	ASN	A	48	-19.495	22.754	52.167	1.00 79.87
ATOM	364	N	LEU	Α	49	-14.902	24.975	50.899	1.00 37.27
ATOM	365	CA	LEU	Α	49	-14.575	26.165	51.639	1.00 35.59
ATOM	366	С	LEU	Α	49	-15.499	27.253	51.115	1.00 40.36
ATOM	367	0	LEU		49	-15.408	27.618	49.944	1.00 41.04
MOTA	368	CB	LEU		49	-13.075	26.504	51.519	1.00 33.17
ATOM	369	CG	LEU		49	-12.645	27.780	52.244	1.00 36.35
ATOM	370		LEU		49	-12.842	27.583	53.737	1.00 34.98
ATOM	371		LEU		49	-11.169	28.024	51.977	1.00 32.02
ATOM	372	N	ARG		50	-16.402	27.745	51.966	1.00 38.16
ATOM	373	CA	ARG		50	-17.343	28.785	51.541	1.00 40.98
ATOM	374	C	ARG		50	-17.066	30.228	51.997	1.00 46.66
ATOM	375	ō	ARG		50	-17.541	31.214	51.410	1.00 38.00
ATOM	376	СВ	ARG		50	-18.744	28.339	51.902	1.00 46.12
	377	CG	ARG		50	-19.238	27.266	50.932	1.00 61.10
MOTA						-20.306	26.345	51.511	1.00 75.76
ATOM	378	CD	ARG		50				1.00100.00
ATOM	379	NE	ARG		50	-20.745	25.322	50.554	
ATOM	380	CZ	ARG		50	-21.979	24.809	50.451	1.00100.00
ATOM	381		ARG		50	-22.981	25.195	51.240	1.00100.00
ATOM	382		ARG		50	-22.220	23.875	49.527	1.00 84.13
MOTA	383	N	SER		51	-16.271	30.339	53.066	1.00 50.16
MOTA	384	CA	SER		51	-15.885	31.610	53.671	1.00 49.64
MOTA	385	C	SER	Α	51	-14.550	31.540	54.403	1.00 47.77
ATOM	386	0	SER	A	51	-14.207	30.522	55.029	1.00 42.04
ATOM	387	CB	SER	A	51	-16.925	32.073	54.697	1.00 53.65
MOTA	388	OG	SER	Α	51	-17.107	31.125	55.755	1.00 51.47
ATOM	389	N	LEU		52	-13.829	32.663	54.351	1.00 41.55
ATOM	390	CA	LEU		52	-12.575	32.757	55.087	1.00 40.56
ATOM	391	C	LEU		52	-12.474	33.996	55.991	1.00 43.53
ATOM	392	ō	LEU		52	-13.288	34.921	55.895	1.00 39.84
		-							

7 TOM	202	CD.	1 1377	7	50	11 201	22 205	E4 33E	1 00 20 22
ATOM	393	CB	LEU		52	-11.291	32.385	54.325	1.00 39.23
MOTA	394	CG	LEU		52	-10.884	33.281	53.164	1.00 45.23
MOTA	395		LEU		52	-11.692	32.934	51.927	1.00 47.83
MOTA	396	CD2	PRA		52	-10.973	34.762	53.516	1.00 44.42
ATOM	397	N	VAL	A	53	-11.489	34.013	56.899	1.00 37.60
ATOM	398	CA	VAL	A	53	-11.289	35.157	57.773	1.00 32.60
MOTA	399	C	VAL	A	53	-9.902	35.696	57.554	1.00 31.28
ATOM	400	0	VAL	Α	53	-8.942	34.925	57.414	1.00 26.57
ATOM	401	CB	VAL	Α	53	-11.527	34.916	59.258	1.00 34.90
ATOM	402		VAL		53	-11.411	36.227	60.052	1.00 32.09
MOTA	403	CG2	VAL		53	-12.904	34.310	59.444	1.00 34.64
MOTA	404	N	LEU		54	-9.857	37.020	57.478	1.00 34.04
ATOM	405	CA	LEU		54	-8.634	37.730	57.325	
									1.00 21.84
ATOM	406	C	LEU		54	-8.434	38.607	58.562	1.00 30.12
ATOM	407	0	LEU		54	-9.386	38.932	59.275	1.00 27.27
ATOM	408	CB	LEU		54	-8.642	38.619	56.097	1.00 23.04
MOTA	409	CG	LEU		54	-8.545	37.839	54.796	1.00 29.10
MOTA	410	CD1	LEU	Α	54	-8.495	38.869	53.678	1.00 26.16
ATOM	411	CD2	LEU	A	54	-7.251	37.027	54.743	1.00 24.36
ATOM	412	N	ASP	A	55	-7.175	38.970	58.810	1.00 27.32
ATOM	413	CA	ASP	Α	55	-6.807	39.843	59.910	1.00 24.82
ATOM	414	С	ASP	Α	55	-6.785	41.269	59.354	1.00 24.10
ATOM	415	0	ASP		55	-6.404	41.485	58.196	1.00 20.86
ATOM	416	CB	ASP		55	-5.390	39.545	60.475	1.00 23.73
ATOM	417	CG	ASP		55	-5.197	38.294	61.291	1.00 16.69
ATOM	418		ASP		55	-5.748	38.060	62.371	1.00 23.25
MOTA	419		ASP		55	-4.279	37.499	60.737	1.00 20.96
ATOM	420	N	THR		56	-7.203	42.241	60.199	1.00 24.09
MOTA	421	CA	THR		56	-7.176	43.675	59.882	1.00 24.09
ATOM	422	C	THR		56				
						-6.990	44.475	61.175	1.00 20.13
ATOM	423	0	THR		56	-7.355	44.035	62.254	1.00 18.34
ATOM	424	CB	THR		56	-8.477	44.244	59.263	1.00 21.22
ATOM	425	OG1	THR		56	-9.507	44.197	60.246	1.00 22.90
ATOM	426	CG2	THR		56	-8.831	43.494	57.987	1.00 21.74
ATOM	427	И	LYS		57	-6.498	45.695	61.046	1.00 20.23
ATOM	428	CA	LYS		57	-6.428	46.501	62.242	1.00 19.81
MOTA	429	С	LYS		57	-6.591	47.937	61.799	1.00 21.15
MOTA	430	0	LYS	Α	57	-5.807	48.429	61.010	1.00 19.90
ATOM	431	CB	LYS	A	57	-5.124	46.230	62.926	1.00 24.68
ATOM	432	CG	LYS	A	57	-4.922	46.928	64.262	1.00 40.66
ATOM	433	CD	LYS	A	57	-3.439	47.032	64.609	1.00 42.93
ATOM	434	CE	LYS	Α	57	-3.141	46.702	66.060	1.00 75.78
ATOM	435	NZ	LYS	Α	57	-1.894	47.316	66.567	1.00 94.53
ATOM	436	N	ASP	Α	58	-7.639	48.622	62.241	1.00 20.19
ATOM	437	CA	ASP	Α	58		49.989	61.784	1.00 17.85
ATOM	438	C	ASP		58	-7.836	50.124	60.283	1.00 24.95
ATOM	439	o	ASP		58	-7.335	51.088	59.678	1.00 23.25
ATOM	440	СВ	ASP		58		50.959	62.402	1.00 21.68
ATOM	441	CG	ASP		58	-7.118	50.982	63.856	1.00 36.83
MOTA	442		ASP		58	-8.253	51.136	64.263	
									1.00 40.21
MOTA	443		ASP		58	-6.100	50.683	64.618	1.00 37.52
ATOM	444	N	LEU		59	-8.466	49.121	59.698	1.00 26.52
MOTA	445	CA	LEU		59	-8.615	49.130	58.259	1.00 29.86
ATOM	446	C	FEA		59	-10.025	49.586	57.847	1.00 33.01
MOTA	447	0	TEU		59	-11.070	49.255	58.424	1.00 29.32
ATOM	448	CB	TEU		59	-8.196	47.789	57.588	1.00 29.02
MOTA	449	CG	LEU		59	-6.682	47.520	57.589	1.00 29.22
MOTA	450	CD1	LEU	A	59	-6.377	46.244	56.795	1.00 29.68

ATOM	451	CD2	TEA	A	59	-5.923	48.703	56.978	1.00 22.97
ATOM	452	N	THR	A	60	-10.029	50.399	56.819	1.00 36.77
MOTA	453	CA	THR	A	60	-11.279	50.877	56.254	1.00 42.01
MOTA	454	C	THR		60	-11.494	50.092	54.940	1.00 36.44
ATOM	455	ō	THR		60	-10.694	50.247	53.992	1.00 33.67
	456	СВ	THR		60	-11.220	52.424	56.080	1.00 56.43
ATOM									
MOTA	457	OG1	THR		60	-11.614	53.107	57.261	1.00 52.66
ATOM	458	CG2	THR		60	-12.034	52.910	54.893	1.00 60.41
MOTA	459	N	ILE		61	-12.515	49.227	54.909	1.00 29.81
MOTA	460	CA	ILE		61	-12.779	48.432	53.711	1.00 32.79
MOTA	461	C	ILE		61	-13.799	49.068	52.780	1.00 35.88
MOTA	462	0	ILE	A	61	-14.939	49.202	53.176	1.00 30.98
ATOM	463	CB	ILB	A	61	~13.337	47.038	53.972	1.00 37.74
ATOM	464	CG1	ILE	A	61	-12.616	46.331	55.118	1.00 40.37
ATOM	465	CG2	ILE	A	61	-13.264	46.240	52.661	1.00 36.33
ATOM	466	CD1	ILB	A	61	-11.098	46.353	54.952	1.00 49.83
ATOM	467	N	GLU	A	62	-13.396	49.409	51.562	1.00 40.08
MOTA	468	CA	GLU		62	-14.276	49.995	50.553	1.00 43.04
ATOM	469	C	GLU		62	-15.199	48.885	50,016	1.00 45.27
ATOM	470	0	GLU		62	-16.415	48.853	50.243	1.00 45.18
ATOM	471	CB	GLU		62	-13.392	50.640	49.457	1.00 45.63
ATOM	472	CG	GLU		62	-14.131	51.580	48.471	1.00 73.11
ATOM	473	CD	GLU		62	-14.846	50.895	47.320	1.00100.00
			GLU						1.00100.00
MOTA	474	OE1			62 62	-15.037	49.689	47.286	
ATOM	475	OE2	GLU		62	-15.254	51.717	46.368	1.00100.00
ATOM	476	N	LYS		63	-14.588	47.918	49.336	1.00 38.38
ATOM	477	CA	LYS		63	-15.311	46.761	48.838	1.00 37.37
ATOM	478	С	LYS		63	-14.396	45.541	48.702	1.00 38.22
MOTA	479	0	LYS		63	-13.167	45.646	48.717	1.00 32.45
MOTA	480	CB	LYS		63	-16.022	47.038	47.530	1.00 33.09
MOTA	481	CG	LYS		63	-15.051	47.059	46.366	1.00 27.59
MOTA	482	CD	LYS	A	63	-15.548	47.905	45.207	1.00 37.24
MOTA	483	CE	LYS	Α	63	-14.443	48.583	44.423	1.00 43.28
MOTA	484	ΝZ	LYS	A	63	-14.395	48.151	43.015	1.00 76.13
ATOM	485	N	VAL	Α	64	-15.049	44.395	48.574	1.00 43.49
MOTA	486	CA	VAL	Α	64	-14.436	43.081	48.377	1.00 45.64
MOTA	487	C	VAL	Α	64	-14.934	42.410	47.087	1.00 45.26
MOTA	488	0	VAL	A	64	-16.058	41.916	46.997	1.00 39.88
ATOM	489	CB	VAL	A	64	-14.689	42.140	49.543	1.00 48.77
MOTA	490	CG1	VAL	Α	64	-14.270	40.746	49.101	1.00 48.87
ATOM	491	CG2	VAL	A	64	-13.861	42.572	50.742	1.00 47.38
ATOM	492	N	VAL	A	65	-14.096	42.380	46.077	1.00 39.08
MOTA	493	CA	VAL	A	65	-14.534	41.789	44.840	1.00 40.48
ATOM	494	C	VAL		65	-13.908	40.457	44.527	1.00 37.21
MOTA	495	0	VAL		65	-12.717	40.294	44.730	1.00 33.83
ATOM	496	CB	VAL		65	-14.162	42.709	43.687	1.00 48.88
ATOM	497		VAL		65	-14.416	42.025	42.352	1.00 47.68
ATOM	498		VAL		65	-14.946	44.014	43.767	1.00 51.54
ATOM	499	N	ILE		66	-14.733	39.568	43.977	1.00 32.25
ATOM	500	CA	ILE		66	-14.361	38.256	43.496	1.00 32.04
ATOM	501	C	ILE		66	-15.071	37.989	42.163	1.00 32.04
			ILE				38.027		1.00 42.61
ATOM	502	O			66	-16.316		42.049	
ATOM	503	CB	ILE		66	-14.649	37.095	44.429	1.00 35.68
ATOM	504	CG1			66	-14.193	37.374	45.860	1.00 35.96
ATOM	505		ILE		66	-13.875	35.912	43.866	1.00 35.65
ATOM	506		ILE		66	-14.692	36.339	46.860	1.00 26.89
ATOM	507	N	ASN		67	-14.261	37.702	41.147	1.00 46.77
MOTA	508	CA	asn	A	67	-14.764	37.413	39.801	1.00 48.02

MOTA	509	С	ASN	A	67	-15.601	38.568	39.297	1.00 51.70
MOTA	510	0	ASN	A	67	-16.753	38.371	38.923	1.00 51.19
MOTA	511	CB	ASN	A	67	~15.580	36.098	39.695	1.00 32.37
ATOM	512	CG	ASN	Α	67	-14.756	34.862	40.037	1.00 57.02
ATOM	513	OD1	ASN	Α	67	-13.549	34.796	39.721	1.00 42.45
ATOM	514	ND2	ASN	A	67	-15.389	33.889	40.714	1.00 45.38
ATOM	515	N	GLY	Α	68	-15.000	39.757	39.327	1.00 45.47
MOTA	516	CA	GLY		68	-15.638	40.982	38.876	1.00 44.33
MOTA	517	C	GLY		68	-16.870	41.394	39.669	1.00 52.05
ATOM	518	0	GLY		68	-17.456	42.442	39.422	1.00 60.14
ATOM	519	N	GLN		69	-17.280	40.591	40.630	1.00 45.36
ATOM	520	CA	GLN		69	-18.458	40.930	41.403	1.00 46.40
ATOM	521	C	GLN		69	-18.156	41.109	42.894	1.00 57.29
ATOM	522	o	GLN		69	-17.404	40.355	43.525	1.00 55.55
MOTA	523	CB	GLN		69	-19.575	39.858	41.258	1.00 48.27
	524	CG	GLN		69				1.00 48.27
ATOM			GLN			-20.184	39.636	39.841	
MOTA	525	CD OF1			69	-20.435	40.926	39.098	1.00 73.86
ATOM	526	OE1			69	-19.771	41.195	38.074	1.00 70.10
ATOM	527	NE2	GLN		69	-21.364	41.729	39.634	1.00 75.78
ATOM	528	N	GLU		70	-18.800	42.114	43.469	1.00 54.73
ATOM	529	CA	GLU		70	-18.661	42.408	44.879	1.00 53.61
MOTA	530	C	GLU		70	-19.274	41.297	45.728	1.00 54.45
ATOM	531	0	GLU		70	-20.285	40.708	45.342	1.00 56.71
ATOM	532	CB	GLU		70	-19.244	43.794	45.191	1.00 54.16
ATOM	533	CG	GLU		70	-18.670	44.845	44.223	1.00 66.60
ATOM	534	CD	GLU		70	-19.042	46.248	44.614	1.00 99.90
ATOM	535	OE1	GLU		70	-19.763	46.518	45.567	1.00 55.96
ATOM	536		GLU		70	-18.515	47.139	43.807	1.00100.00
ATOM	537	N	VAL		71	-18.652	40.992	46.875	1.00 41.84
ATOM	538	CA	VAL		71	-19.146	39.929	47.731	1.00 37.89
ATOM	539	C	VAL		71	-19.472	40.373	49.160	1.00 37.87
ATOM	540	0	VAL		71	-19.112	41.469	49.586	1.00 34.22
MOTA	541	CB	VAL	Α	71	-18.254	38.677	47.618	1.00 41.06
MOTA	542		VAL		71	-17.823	38.468	46.158	1.00 38.37
ATOM	543	CG2	VAL		71	-17.012	38.800	48.500	1.00 39.32
ATOM	544	N	LYS		72	-20.182	39.513	49.897	1.00 35.47
ATOM	545	CA	LYS	A	72	-20.559	39.775	51.274	1.00 36.55
ATOM	546	C	LYS	Α	72	-19.325	39.664	52.171	1.00 48.55
ATOM	547	0	LYS	A	72	-18.411	38.849	51.947	1.00 44.75
MOTA	548	CB	LYS	A	72	-21.607	38.799	51.783	1.00 36.22
MOTA	549	CG	LYS	Α	72	-22.618	39.411	52.729	1.00 71.24
ATOM	550	CD	LYS	Α	72	-23.875	39.881	52.015	1.00 91.55
ATOM	551	CE	LYS	A	72	-25.018	40.175	52.979	1.00100.00
ATOM	552	NZ	LYS	Α	72	-25.393	39.021	53.821	1.00100.00
ATOM	553	N	TYR	Α	73	-19.327	40.506	53.199	1.00 46.72
MOTA	554	CA	TYR	A	73	-18.263	40.517	54.177	1.00 46.48
ATOM	555	C	TYR	A.	73	-18.637	41.190	55.466	1.00 47.06
ATOM	556	0	TYR	Α	73	-19.583	41.962	55.569	1.00 46.31
ATOM	557	CB	TYR	A	73	-16.956	41.091	53.662	1.00 43.25
ATOM	558	CG	TYR	Α	73	-16.940	42.580	53.611	1.00 47.55
ATOM	559		TYR		73	-16.675	43.327	54.752	1.00 49.47
ATOM	560		TYR		73	-17.111	43.242	52.396	1.00 49.40
ATOM	561		TYR		73	-16.632	44.722	54.702	1.00 45.81
ATOM	562	CE2			73	-17.031	44.632	52.315	1.00 50.44
ATOM	563	CZ	TYR		73	-16.821	45.357	53.475	1.00 55.67
ATOM	564	OH	TYR		73	-16.761	46.722	53.409	1.00 61.06
ATOM	565	N	ALA		74	-17.852	40.860	56.462	1.00 41.61
ATOM	566	CA	ALA		74	-18.079	41.415	57.772	1.00 41.55

ATOM	567	C	ALA	A	74	-16.763	41.674	58.524	1.00 45.67
ATOM	568	0	ALA		74	-15.710	41.092	58.249	1.00 38.74
MOTA	569	CB	ALA	Α	74	-19.074	40.572	58.563	1.00 39.69
ATOM	570	N	LEU	Α	75	-16.861	42.609	59.464	1.00 43.41
MOTA	571	CA	LEU	A	75	-15.798	43.026	60.355	1.00 38.66
MOTA	572	C	LEU	A	75	-16.241	42.750	61.778	1.00 34.64
MOTA	573	0	LEU	A	75	-17.202	43.316	62.260	1.00 39.67
MOTA	574	CB	LEU	Α	75	-15.432	44.499	60.117	1.00 38.89
ATOM	575	CG	LEU	Α	75	-14.504	44.657	58.913	1.00 47.18
ATOM	576	CD1	LEU	A	75	-14.025	46.099	58.824	1.00 51.19
MOTA	577	CD2	LEU	A	75	-13.278	43.760	59.032	1.00 48.20
ATOM	578	N	GLY	Α	76	-15.616	41.817	62.458	1.00 33.98
ATOM	579	CA	GLY	A	76	-16.005	41.518	63.823	1.00 34.06
ATOM	580	C	GLY	A	76	-15.526	42.623	64.766	1.00 38.57
ATOM	581	0	GLY	A	76	-14.887	43.617	64.372	1.00 36.37
ATOM	582	N	GLU	A	77	-15.857	42.491	66.037	1.00 38.70
MOTA	583	CA	GLU	Α	77	-15.395	43.560	66.900	1.00 41.69
ATOM	584	C	GLU	Α	77	-13.907	43.415	67.146	1.00 41.16
ATOM	585	0	GLU	A	77	-13.371	42.308	67.121	1.00 33.89
ATOM	586	CB	GLU	Α	77	-16.152	43.651	68.238	1.00 44.95
ATOM	587	CG	GLU	A	77	-16.634	42.290	68.792	1.00 66.34
ATOM	588	CD	GLU	A	77	-16.713	42.271	70.307	1.00100.00
ATOM	589	OE1	GLU	A	77	-16.003	41.551	71.002	1.00100.00
ATOM	590	OE2	GLU	Α	77	-17.607	43.109	70.802	1.00100.00
ATOM	591	N	ARG	Α	78	-13.266	44.551	67.393	1.00 42.48
ATOM	592	CA	ARG	A	78	-11.843	44.608	67.681	1.00 40.23
ATOM	593	C	ARG	Α	78	-11.440	43.802	68.895	1.00 38.54
ATOM	594	0	ARG	A	78	-12.137	43.783	69.908	1.00 33.87
ATOM	595	CB	ARG	Α	78	-11.360	46.010	67.939	1.00 39.17
MOTA	596	CG	ARG	A	78	-9.927	46.212	67.462	1.00 46.74
MOTA	597	CD	ARG	A	78	-9.391	47.489	68.064	1.00 34.80
MOTA	598	NE	ARG	Α	78	-7.960	47.579	68.004	1.00 30.05
ATOM	599	CZ	ARG	A	78	-7.466	48.544	67.282	1.00 56.07
ATOM	600	NH1	ARG	A	78	-8.293	49.370	66.631	1.00 53.51
MOTA	601	NH2	ARG	A	78	-6.144	48.657	67.205	1.00 33.42
ATOM	602	N	GLN	A	79	-10.293	43.133	68.761	1.00 31.91
MOTA	603	CA	GLN	A	79	-9.743	42.334	69.829	1.00 30.53
ATOM	604	C	GLN	A	79	-8.425	42.981	70.197	1.00 34.86
ATOM	605	0	GLN	Α	79	-7.340	42.497	69.903	1.00 33.78
ATOM	606	CB	GLN	Α	79	-9.602	40.868	69.400	1.00 31.15
ATOM	607	CG	GLN	A	79	-10.980	40.241	69.104	1.00 35.70
MOTA	608	CD	GLN	A	79	-10.937	38.731	69.083	1.00 41.57
MOTA	609	OE1	GLN	A	79	-10.137	38.088	69.795	1.00 41.83
ATOM	610	NE2	GLN	Α	79	-11.802	38.159	68.255	1.00 37.26
MOTA	611	N	SER	A	8.0	-8.566	44.149	70.7 <del>9</del> 5	1.00 28.82
MOTA	612	CA	SER	A	80	-7.443	44.951	71.184	1.00 25.23
ATOM	613	С	SER	A	80	-6.326	44.914	70.197	1.00 23.44
MOTA	614	0	SER	A	80	-6.479	45.361	69.076	1.00 26.59
ATOM	615	CB	SER		80	-6.889	44.746	72.585	1.00 31.25
MOTA	616	OG	SER		80	-6.560	43.393	72.744	1.00 36.44
ATOM	617	И	TYR		81	-5.174	44.420	70.668	1.00 20.57
ATOM	618	CA	TYR		81	-3.968	44.448	69.861	1.00 19.31
ATOM	619	С	TYR		81	-3.981	43.578	68.648	1.00 19.50
MOTA	620	0	TYR		81	-3.087	43.722	67.841	1.00 24.41
MOTA	621	CB	TYR		81	-2.638	44.225	70.624	1.00 20.60
ATOM	622	CG	TYR		81	-2.615	42.834	71.192	1.00 16.49
ATOM	623		TYR		81	-3.209	42.581	72.424	1.00 17.66
ATOM	624	CD2	TYR	A	81	-2.085	41.783	70.452	1.00 17.05

ATOM	C25	OBI	TYR	7	01	-3.258	41.294	72.944	1.00 20.70
	625				81				
ATOM	626	CE2	TYR		81	-2.178	40.481	70.933	1.00 18.17
MOTA	627	CZ	TYR		81	-2.731	40.249	72.192	1.00 21.91
ATOM	628	OH	TYR		81	-2.804	38.975	72.700	1.00 23.17
ATOM	629	N	LYS	A	82	-4.932	42.678	68.560	1.00 15.16
MOTA	630	CA	LYS	A	82	-5.023	41.797	67.414	1.00 16.93
MOTA	631	С	LYS	A	82	-5.794	42.437	66.270	1.00 29.18
MOTA	632	0	LYS	A	82	-5.780	41.883	65.177	1.00 28.33
MOTA	633	CB	LYS	A	82	-5.620	40.450	67.767	1.00 16.35
ATOM	634	CG	LYS	Α	82	-5.110	39.966	69.106	1.00 32.81
MOTA	635	CD	LYS		82	-5.245	38.472	69.330	1.00 28.25
ATOM	636	CE	LYS		82	-5.699	38.100	70.734	1.00 39.59
ATOM	637	NZ	LYS		82	-6.304	36.762	70.827	1.00 41.62
ATOM	638	N	GLY		83	-6.437	43.596	66.510	1.00 24.43
MOTA	639	CA	GLY		83	-7.209	44.249	65.467	1.00 21.14
ATOM	640	C	GLY		83	-8.579	43.564	65.361	1.00 27.80
ATOM	641	0	GLY		83	-9.037	42.901	66.295	1.00 23.50
ATOM	642	N	SER		84	-9.218	43.674	64.186	1.00 28.99
ATOM	643	CA	SER		84	-10.541	43.072	63.948	1.00 27.81
MOTA	644	C	SER	A	84	-10.601	42.083	62.770	1.00 28.89
ATOM	645	0	SER	A	84	-10.153	42.340	61.646	1.00 27.83
MOTA	646	CB	SER	A	84	-11.619	44.136	63.732	1.00 30.17
ATOM	647	OG	SER	Α	84	-11.229	45.402	64.258	1.00 40.66
MOTA	648	N	PRO	Α	85	-11.210	40.949	63.053	1.00 22.21
MOTA	649	CA	PRO	A	85	-11.380	39.868	62.087	1.00 23.63
ATOM	650	C	PRO	Α	85	-12.323	40.261	60.970	1.00 34.83
ATOM	651	0	PRO	Α	85	-13.428	40.734	61.227	1.00 32.98
ATOM	652	CB	PRO	A	85	-12.094	38.750	62.838	1.00 20.66
ATOM	653	CG	PRO	Α	85	-12.728	39.406	64.064	1.00 26.90
ATOM	654	CD	PRO		85	-12.026	40.748	64.281	1.00 19.24
MOTA	655	N	MET		86	-11.873	40.007	59.748	1.00 32.85
ATOM	656	CA	MET		86	-12.657	40.277	58.567	1.00 27.57
MOTA	657	C	MET		86	-13.107	38.999	57.876	1.00 35.20
ATOM	658	ō	MET		86	-12.324	38.287	57.254	1.00 32.03
ATOM	659	CB	MET		86	-11.867	41.111	57.587	1.00 25.81
ATOM	660	CG	MET		86	-12.681	41.288	56.336	1.00 27.23
ATOM	661	SD	MET		86	-11.733	42.327	55.236	1.00 34.75
ATOM	662	CE	MET		86	-12.733	42.250	53.731	1.00 34.07
	663	N	GLU		87		38.690	58.005	1.00 37.91
ATOM			GLU		87	-14.383		57.352	
ATOM	664 665	CA C				-14.920	37.509	55.916	1.00 37.56
ATOM			GĻŪ		87	-15.419	37.749		1.00 38.67
ATOM	666	0	GLU		87	-16.161	38.678	55.590	1.00 35.07
ATOM	667	СВ	GLU		87	-15.916	36.790	58.244	1.00 37.42
MOTA	668	CG	GLU		87	-16.428	35.494	57.598	1.00 42.93
MOTA	669	CD	GLU		87	~17.485	34.869	58.463	1.00 98.12
MOTA	670	OE1			87	-18.518	35.442	58.765	1.00100.00
MOTA	671	OE2	GLU		87	-17.169	33.668	58.884	1.00 97.75
ATOM	672	N	ILE		88	-14.951	36.912	55.008	1.00 35.85
MOTA	673	CA	ILE		88	-15.335	37.017	53.619	1.00 34.90
MOTA	674	C	ILE	Α	88	-16.128	35.804	53.112	1.00 43.97
ATOM	675	0	ILE	A	88	-15.841	34.637	53.416	1.00 40.77
MOTA	676	CB	ILE	Α	88	-14.186	37.383	52.728	1.00 36.05
ATOM	677	CG1	ILE	Α	88	-13.523	38.648	53.250	1.00 33.06
MOTA	678	CG2			88	-14.681	37.567	51.297	1.00 40.76
MOTA	679		ILE		88	-12.247	38.964	52.466	1.00 23.51
ATOM	680	N	SER		89	-17.184	36.123	52.360	1.00 44.09
MOTA	681	CA	SER		89	-18.102	35.143	51.786	1.00 45.80
ATOM	682	c	SER		89	-17.731	34.761	50.373	1.00 45.34
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MOTA	683	0	SER		89	-17.690	35.614	49.475	1.00 42.76
ATOM	684	CB	SER		89	-19.556	35.58 <i>6</i>	51.839	1.00 50.73
ATOM	685	OG	SER	Α	89	-19.993	35.504	53.187	1.00 74.19
MOTA	686	N	LEU	Α	90	-17.458	33.462	50.220	1.00 40.59
ATOM	687	CA	LEU	Α	90	-17.093	32.938	48.923	1.00 42.06
ATOM	688	C	LEU	A	90	-18.339	32.535	48.139	1.00 46.06
ATOM	689	0	LEU		90	-19.189	31.774	48.630	1.00 45.88
ATOM	690	CB	LEU		90	-16.141	31.743	49.082	1.00 42.14
		CG	LEU					50.161	1.00 45.92
ATOM	691				90	-15.105	31.978		
MOTA	692		TEU		90	-14.261	30.708	50.278	1.00 47.05
ATOM	693	CD2	LEU		90	-14.260	33.174	49.738	1.00 48.82
ATOM	694	N	PRO	A	91	-18.430	33.064	46.926	1.00 45.82
ATOM	695	CA	PRO		91	-19.562	32.786	46.048	1.00 49.29
ATOM	696	С	PRO	A	91	-19.576	31.355	45.482	1.00 56.99
ATOM	697	0	PRO	A	91	-20.552	30.965	44.859	1.00 55.61
ATOM	698	CB	PRO	A	91	-19.453	33.799	44.909	1.00 49.61
ATOM	699	CG	PRO	A	91	-18.042	34.369	44.955	1.00 53.03
ATOM	700	CD	PRO		91	-17.382	33.839	46.221	1.00 46.47
ATOM	701	N	ILE		92	-18.506	30.582	45.696	1.00 55.26
	702	CA	ILE		92	-18.422	29.211	45.223	1.00 58.60
MOTA		C			92 92	-17.760		46.273	1.00 58.73
ATOM	703		ILE				28.334		1.00 58.75
MOTA	704	0	ILE		92	-16.685	28.673	46.724	
MOTA	705	CB	ILE		92	-17.621	29.101	43.927	1.00 64.96
ATOM	706	CG1	ILE		92	-18.422	29.655	42.750	1.00 68.88
ATOM	707	CG2	ILE	A	92	-17.258	27.642	43.666	1.00 65.48
MOTA	708	CD1	ILE	A	92	-17.579	30.091	41.549	1.00 81.60
MOTA	709	N	ALA	Α	93	-18.335	27.210	46.673	1.00 47.92
ATOM	710	CA	ALA	A	93	-17.613	26.441	47.657	1.00 44.97
MOTA	711	C	ALA	A	93	-16.291	26.029	47.044	1.00 53.08
ATOM	712	0	ALA	Α	93	-16.279	25.772	45.841	1.00 54.26
ATOM	713	CB	ALA		93	-18.384	25.220	48.121	1.00 44.53
MOTA	714	N	LEU		94	~15.199	25.994	47.827	1.00 46.91
ATOM	715	CA	LEU		94	-13.894	25.607	47.304	1.00 43.41
ATOM	716	C	LEU		94	-13.570	24.240	47.797	1.00 46.24
ATOM	717	0	LEU		94	-14.042	23.826	48.851	1.00 47.66
ATOM	718	СВ	LEU		94	-12.715	26.455	47.800	1.00 42.71
						-12.601	27.799	47.109	1.00 48.37
ATOM	719	CG	LEU		94				
ATOM	720		LEU		94	-11.307	28.510	47.507	1.00 45.33
ATOM	721		LEU		94	-12.659	27.584	45.600	1.00 57.15
MOTA	722	N	SER		95	-12.744	23.561	47.039	1.00 43.22
ATOM	723	CA	SER		95 _.	-12.335	22.250	47.476	1.00 42.38
ATOM	724	С	SER	Α	95	-10.834	22.238	47.628	1.00 36.34
ATOM	725	0	SER	A	95	-10.131	23.166	47.218	1.00 34.42
ATOM	726	CB	SER	A	95	-12.896	21.096	46.670	1.00 48.01
MOTA	727	OG	SER	A	95	-14.209	20.867	47.143	1.00 64.55
ATOM	728	N	LYS	A	96	-10.334	21.200	48.239	1.00 32.05
ATOM	729	CA	LYS	A	96	-8.899	21.179	48.443	1.00 31.11
ATOM	730	C	LYS		96	-8.126	21.687	47.252	1.00 32.56
ATOM	731	0	LYS		96	-8.513	21.469	46.127	1.00 39.67
ATOM	732	СВ	LYS		96	-8.395	19.815	48.908	1.00 35.42
ATOM	733	CG	LYS		96	-9.282	19.215	49.993	1.00 75.37
ATOM	734	CD	LYS		96	-8.738	17.938	50.628	1.00 90.56
					96	-0.730 -9.552	17.461	51.829	1.00100.00
ATOM	735	CE	LYS						
ATOM	736	NZ	LYS		96	-8.830	16.537	52.728	1.00100.00
ATOM	737	И	ASN		97	-7.023	22.370	47.483	1.00 24.18
MOTA	738	CA	ASN		97	-6.125	22.870	46.446	1.00 23.26
MOTA	739	С	asn		97	-6.635	23.805	45.396	1.00 28.02
MOTA	740	0	asn	A	97	-5.916	24.197	44.481	1.00 32.95

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MOTA	741	CB	ASN		97	-5.257	21.772	45.817	1.00 29.05
MOTA	742	CG	ASN		97	-4.511	21.024	46.903	1.00 79.22
ATOM	743		ASN		97	-3.813	21.645	47.725	1.00 66.27
MOTA	744	ND2	ASN		97	-4.690	19.700	46.926	1.00 89.90
MOTA	745	N	GLN	A	98	-7.876	24.148	45.539	1.00 29.12
MOTA	746	CA	GLN	Α	98	-8.480	25.068	44.628	1.00 30.69
ATOM	747	С	GLN	Α	98	-8.245	26.455	45.151	1.00 34.12
ATOM	748	0	GLN	Α	98	-8.220	26.673	46.363	1.00 32.27
MOTA	749	CB	GLN	Α	98	-9.979	24.775	44.680	1.00 35.86
ATOM	750	CG	GLN		98	-10.299	23.404	44.057	1.00 52.64
ATOM	751	CD	GLN		98	-11.618	23.476	43.326	1.00 90.95
MOTA	752		GLN		98	-12.506	22.646	43.569	1.00 86.29
ATOM	753		GLN		98	-11.761	24.502	42.477	1.00 83.23
ATOM	754	N	GLU		99				1.00 33.23
						-8.113	27.366	44.212	
ATOM	755	CA	GLU		99	-7.836	28.767	44.459	1.00 35.24
MOTA	756	C	GLU		99	-8.799	29.788	43.877	1.00 42.30
ATOM	757	0	GLU		99	-9.240	29.696	42.731	1.00 42.60
MOTA	758	CB	GLU		99	-6.487	29.092	43.786	1.00 35.30
ATOM	759	CG	GLU		99	-5.592	27.856	43.665	1.00 43.60
ATOM	760	CD	GLU		99	-4.164	28.161	43.336	1.00 52.48
ATOM	761	OE1	GLU	A	99	-3.778	29.191	42.812	1.00 54.31
MOTA	762	OE2	GLU	А	99	-3.377	27.171	43.663	1.00 81.49
ATOM	763	N	ILE	А	100	-9.036	30.820	44.680	1.00 38.20
MOTA	764	CA	ILE	A	100	-9.820	31.975	44.306	1.00 37.64
ATOM	765	C	ILE	Α	100	-8.939	33.193	44.501	1.00 47.53
ATOM	766	0	ILE	Α	100	-7.889	33.202	45.153	1.00 46.12
MOTA	767	CB	ILE	Α	100	-11.101	32.274	45.077	1.00 41.53
ATOM	768	CG1	ILE			-11.070	31.895	46.542	1.00 44.24
ATOM	769	CG2	ILE		100	-12.407	31.918	44.383	1.00 43.12
ATOM	770		ILE			-10.379	32.958	47.391	1.00 63.56
ATOM	771	N			101	-9.398	34.268	43.917	1.00 44.45
ATOM	772	CA	VAL			-8.706	35.510	44.086	1.00 41.52
ATOM	773	C	VAL			-9.710	36.529	44.565	1.00 44.93
ATOM	774	ō	VAL			-10.794	36.664	44.001	1.00 43.66
ATOM	775	СВ	VAL			-7.707	35.976	43.051	1.00 39.34
ATOM	776		VAL			-7.707 -7.825	35.219	41.749	1.00 38.49
ATOM	777		VAL						
MOTA	778	N	ILE			-7.829	37.479	42.892 45.681	1.00 37.47 1.00 36.04
		CA				-9.338	37.145		
ATOM	779	CA	ILE			-10.137	38.122	46.378	1.00 30.61
ATOM	780					-9.440	39.463	46.313	1.00 33.94
ATOM	781	0	ILE			-8.294	39.614	46.776	1.00 33.48
MOTA	782	CB	ILE			-10.260	37.610	47.798	1.00 32.63
ATOM	783		ILE			-10.394	36.098	47.737	1.00 27.27
ATOM	784		ILE			-11.463	38.204	48.502	1.00 37.40
ATOM	785		ILE			-10.628	35.451	49.093	1.00 28.19
MOTA	786	N	GLU			-10.116	40.423	45.676	1.00 26.53
ATOM	787	CA	GLU			-9.549	41.755	45.548	1.00 27.13
ATOM	788	С	GLU			-10.186	42.615	46.601	1.00 37.89
ATOM	789	0	GLU			-11.408	42.630	46.710	1.00 40.69
MOTA	790	CB	GLU			-9.731	42.362	44.169	1.00 28.43
ATOM	791	CG	GLU			-8.946	43.670	44.000	1.00 39.11
MOTA	792	CD	GLU	A	103	-9.263	44.343	42.690	1.00 94.53
MOTA	793		GLU			-10.236	45.069	42.526	1.00100.00
ATOM	794	OE2	GLU	A	103	-8.388	44.051	41.750	1.00 98.87
ATOM	795	N	ILE			-9.355	43.252	47.416	1.00 36.94
ATOM	796	CA	ILE			-9.847	44.076	48.512	1.00 35.20
ATOM	797	C	ILE			-9.459	45.532	48.378	1.00 38.03
ATOM	798	0	ILE			-8.277	45.856	48.192	1.00 34.77
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ATOM	799	CB	ILE A	104	-9.504	43.541	49.891	1.00 38.11
MOTA	800				-10.003	42.125	50.061	1.00 34.81
ATOM	801	CG2	ILE A		-10.128	44.420	50.967	1.00 39.18
	802	CD1	ILE A		-9.015	41.335	50.896	1.00 30.92
ATOM								1.00 42.46
ATOM	803	N	SER A		-10.529	46.353	48.429	
ATOM	804	CA	SER A		-10.510	47.811	48.323	1.00 42.36
MOTA	805	C	SER A		-10.400	48.380	49.723	1.00 34.84
MOTA	806	0	SER A		-11.328	48.305	50.510	1.00 31.47
ATOM	807	CB	SER A	105	-11.731	48.328	47.575	1.00 45.94
MOTA	808	OG	SER A	105	-11.386	48.517	46.209	1.00 47.45
MOTA	809	N	PHE A	106	-9.228	48.910	50.031	1.00 33.13
MOTA	810	CA	PHE A	106	-8.995	49.380	51.385	1.00 29.35
MOTA	811	C	PHE A	106	-8.269	50.713	51.494	1.00 28.86
MOTA	812	0	PHE A	106	-7.550	51.199	50.577	1.00 24.93
MOTA	813	CB	PHE A	106	-8.134	48.290	52.115	1.00 27.98
ATOM	814	CG	PHE A		-6.700	48.251	51.597	1.00 27.57
ATOM	815		PHE A		-6.326	47.411	50.550	1.00 30.25
ATOM	816	CD2	PHE A		-5.709	49.085	52.123	1.00 31.01
ATOM	817		PHE A		-5.020	47.429	50.058	1.00 33.05
	818	CE2	PHE A		-4.401	49.136	51.641	1.00 30.90
ATOM		CZ	PHE A			48.291	50.588	1.00 30.89
ATOM	819				-4.058			1.00 30.09
ATOM	820	N	GLU A		-8.472	51.231	52.717	
ATOM	821	CA	GLU A		-7.864	52.476	53.183	1.00 36.36
MOTA	822	C	GLU A		-7.271	52.257	54.583	1.00 33.60
ATOM	823	0	GLU A		-7.945	51.706	55.468	1.00 34.10
ATOM	824	CB	GLU A		-8.918	53.613	53 -297	1.00 40.08
MOTA	825	CG	GLU A	107	-8.512	55.003	52.740	1.00 64.89
MOTA	826	CD	GLU A		-9.717	55.892	52.518	1.00100.00
ATOM	827	OE1	GLU A	107	-10.367	55.977	51.476	1.00100.00
ATOM	828	OE2	GLU A	107	-10.011	56.578	53.592	1.00 86.39
MOTA	829	N	THR A	108	-6.019	52.681	54.788	1.00 32.30
MOTA	830	CA	THR A	108	-5.408	52.538	56.114	1.00 35.58
ATOM	831	C	THR A	108	-5.733	53.774	56.938	1.00 41.15
ATOM	832	0	THR A	108	-6.045	54.814	56.360	1.00 39.58
ATOM	833	CB	THR A	108	-3.864	52.454	56.088	1.00 36.81
ATOM	834	OG1	THR A	108	-3.268	53.544	55.381	1.00 33.05
ATOM	835	CG2	THR A	108	-3.418	51.100	55.560	1.00 27.41
ATOM	836	N	SER A	109	-5.608	53.647	58.258	1.00 34.04
MOTA	837	CA	SER A	109	~5.823	54.723	59.207	1.00 27.85
ATOM	838	C	SER A		~4.559	55.540	59.361	1.00 33.11
ATOM	839	0	SER A		-3.447	55.011	59.228	1.00 29.81
MOTA	840	СВ	SER A		-6.278	54.179	60.541	1.00 26.33
ATOM	841	OG	SER A		~6.058	55.183	61.512	1.00 36.95
ATOM	842	N	PRO A		-4.671	56.854	59.614	1.00 33.05
MOTA	843	CA	PRO A		-3.403	57.541	59.715	1.00 31.04
MOTA	844	C	PRO A		-2.685	57.099	60.978	1.00 31.17
	845	0	PRO A		-1.461	57.191	61.092	1.00 32.61
MOTA			PRO A		~3.586	59.039	59.464	1.00 32.40
ATOM	846	CB	PRO A			59.160	58.980	1.00 34.90
MOTA	847	CG			~5.026		59.448	1.00 32.97
ATOM	848	CD	PRO A		-5.736	57.884		
ATOM	849	N	LYS A		-3.467	56.512	61.870	1.00 20.99
ATOM	850	CA	LYS A		-2.943	55.961	63.112	1.00 22.35
MOTA	851	C	LYS A		-2.509	54.489	63.004	1.00 26.37
MOTA	852	0	LYS A		-2.436	53.796	64.033	1.00 25.46
ATOM	853	CB	LYS A		-3.928	56.106	64.272	1.00 26.02
MOTA	854	CG	LYS A		-4.211	57.544	64.706	1.00 69.25
MOTA	855	CD	LYS A		-5.508	58.112	64.136	1.00 98.06
MOTA	856	CE	LYS A	. 111	-6.573	58.381	65.191	1.00100.00

3.5034				_					
ATOM	857	NZ			111	-7.898	58.618	64.591	1.00100.00
ATOM	858	N			112	-2.237	54.000	61.775	1.00 25.30
ATOM	859	CA	SER	A	112	-1.816	52.609	61.553	1.00 22.00
MOTA	860	C	SER	Α	112	-0.545	52.268	62.367	1.00 19.89
MOTA	861	0	SER	A	112	0.496	52.894	62.223	1.00 23.91
MOTA	862	CB	SER	Α	112	-1.541	52.354	60.072	1.00 15.83
ATOM	863	OG	SER	А	112	-0.793	51.153	59.917	1.00 19.70
ATOM	864	N			113	-0.613	51.245	63.195	1.00 18.58
MOTA	865	CA			113	0.525	50.842	64.006	1.00 18.61
MOTA	866	C			113	1.734	50.356	63.211	1.00 24.91
MOTA	867	0			113	2.859	50.239	63.718	1.00 22.90
ATOM	868	CB			113	0.114	49.900	65.120	1.00 19.15
MOTA	869	OG			113	-0.312	48.649	64.620	1.00 19.49
MOTA	870	N			114	1.499	50.077	61.937	1.00 19.34
MOTA	871	CA	ALA	A	114	2.541	49.589	61.053	1.00 17.80
MOTA	872	С	ALA	Α	114	3.310	50.728	60.449	1.00 20.40
MOTA	873	0	ALA	Α	114	4.371	50.555	59.817	1.00 19.02
MOTA	874	CB	ALA	A	114	1.850	48.892	59.883	1.00 16.86
ATOM	875	N	LEU	Α	115	2.724	51.914	60.607	1.00 17.74
MOTA	876	CA	LEU	Α	115	3.358	53.026	59.960	1.00 19.94
ATOM	877	С	LEU	Α	115	3.643	54.215	60.826	1.00 19.68
ATOM	878	0			115	3.052	54.427	61.870	1.00 24.55
ATOM	879	CB	LEU			2.440	53.538	58.829	1.00 22.23
MOTA	880	CG	LEU			1.963	52.455	57.873	1.00 25.61
ATOM	881		LEU			0.865	53.050		
								57.001	1.00 29.64
ATOM	882	CD2	LEU			3.101	51.926	56.999	1.00 20.12
ATOM	883	И			116	4.578	54.971	60.308	1.00 18.97
ATOM	884	CA			116	4.990	56.249	60.865	1.00 22.74
ATOM	885	C			116	5.083	57.265	59.739	1.00 24.89
MOTA	886	0	GLN	Α	116	5.911	57.131	58.823	1.00 20.48
ATOM	887	CB			116	6.265	56.308	61.706	1.00 23.66
ATOM	888	CG	GLN	Α	116	6.278	57.643	62.492	1.00 31.55
MOTA	889	CD	GLN	Α	116	7.541	57.860	63.291	1.00 28.17
ATOM	890	OE1	GLN	A	116	8.409	56.973	63.387	1.00 23.94
ATOM	891	NE2	GLN	A	116	7.681	59.062	63.834	1.00 24.04
ATOM	892	N	TRP	A	117	4.202	58.261	59.817	1.00 25.51
MOTA	893	CA	TRP	Α	117	4.154	59.323	58.829	1.00 24.50
ATOM	894	C	TRP	A	117	4.873	60.524	59.411	1.00 29.40
ATOM	895	0			117	4.437	61.044	60.438	1.00 32.14
ATOM	896	СВ			117	2.697	59.715	58.631	1.00 22.31
ATOM	897	CG	TRP			1.865	58.712	57.898	1.00 24.18
ATOM	898	CD1	TRP			1.075		•	1.00 27.24
ATOM	899		TRP			1.671	58.606	56.469	1.00 27.24
MOTA	900		TRP			0.429			1.00 26.67
							57.046	57.492	
ATOM	901		TRP			0.772	57.531	56.253	1.00 26.59
ATOM	902		TRP			2.185	59.296	55.364	1.00 24.86
ATOM	903		TRP			0.347	57.145	54.973	1.00 25.38
ATOM	904		TRP			1.789	58.900	54.090	1.00 27.68
MOTA	905		TRP			0.868	57.855	53.901	1.00 28.07
MOTA	906	N	LEU			5.972	60.918	58.769	1.00 23.97
ATOM	907	CA	LEU	A	118	6.813	62.038	59.185	1.00 25.88
ATOM	908	C	LEU	A	118	6.557	63.335	58.404	1.00 35.42
ATOM	909	0	LEU	A	118	6.471	63.345	57.171	1.00 37.58
ATOM	910	CB	LEU			8.346	61.756	59.042	1.00 24.73
ATOM	911	CG	LEU			8.904	60.441	59.630	1.00 31.22
ATOM	912		LEU			10.425	60.511	59.713	1.00 27.63
ATOM	913		LEU			8.372	60.198	61.033	1.00 27.03
ATOM	914	N	THR			6.493	64.452	59.136	1.00 33.83
ALON	214	7.4	THE		112	0.433	07.432	33.130	1.00 27.43

ATOM	915	CA	THR	Α	119	6.345	65.763	58.528	1.00 26.58
ATOM	916	С	THR	Α	119	7.723	66.117	58.011	1.00 28.74
MOTA	917	0			119	8.715	65.587	58.515	1.00 33.10
ATOM	918	CB			119	5.913	66.773	59.610	1.00 30.87
ATOM	919	0G1			119	6.959	66.918	60.570	1.00 43.03
ATOM	920	CG2			119	4.662	66.239	60.288	1.00 35.04
ATOM	921	N			120	7.833	67.008	57.023	1.00 30.76
MOTA	922	CA			120	9.151	67.332	56.511	1.00 27.85
MOTA	923	С			120	10.131	67.791	57.577	1.00 33.68
ATOM	924	0			120	11.342	67.593	57.442	1.00 34.58
MOTA	925	CB			120	8.944	68.390	55.431	1.00 29.01
MOTA	926	CG	PRO	A	120	7.483	68.312	55.046	1.00 29.59
MOTA	927	CD	PRO	A	120	6.768	67.680	56.215	1.00 27.06
ATOM	928	N	GLU	A	121	9.603	68.413	58.628	1.00 36.28
MOTA	929	CA	GLU	A	121	10.428	68.913	59.735	1.00 41.71
ATOM	930	C	GLU	A	121	11.155	67.780	60.421	1.00 46.90
ATOM	931	0	GLU	Α	121	12.302	67.911	60.852	1.00 45.40
ATOM	932	СВ			121	9.653	69.674	60.828	1.00 43.86
ATOM	933	CG	GLU			8.117	69.533	60.744	1.00 58.00
ATOM	934	CD	GLU			7.497	70.524	59.787	1.00 95.29
ATOM	935	OE1				8.029	71.583	59.481	1.00100.00
ATOM	936	OE2	GLU			6.343	70.133	59.295	1.00 59.19
ATOM	937	N	GLN			10.419	66.674	60.509	1.00 40.04
ATOM	938	CA	GLN			10.898	65.442	61.105	1.00 34.75
ATOM	939	C	GLN			11.970	64.761	60.246	1.00 38.46
ATOM	940	0	GLN			12.575	63.775	60.657	1.00 36.92
ATOM	941	CB	GLN			9.688	64.505	61.280	1.00 31.67
MOTA	942	CG	GLN			9.002	64.705	62.627	1.00 23.93
ATOM	943	CD	GLN			7.722	63.930	62.790	1.00 33.52
MOTA	944	OE1	GLN			6.754	64.126	62.036	1.00 38.04
MOTA	945	NE2	GLN	Α	122	7.682	63.071	63.806	1.00 30.07
ATOM	946	N	THR	Α	123	12.202	65.252	59.018	1.00 36.12
ATOM	947	CA	THR	A	123	13.166	64.626	58.102	1.00 33.51
MOTA	948	C	THR	Α	123	14.492	65.315	58.131	1.00 36.18
ATOM	949	0	THR	Α	123	14.617	66.359	58.755	1.00 40.90
ATOM	950	CB	THR	Α	123	12.671	64.577	56.637	1.00 31.27
MOTA	951	OG1	THR	A	123	12.565	65.900	56.137	1.00 38.36
MOTA	952	CG2	THR	A	123	11.300	63.912	56.566	1.00 21.97
ATOM	953	N	SER	Α	124	15.470	64.743	57.448	1.00 30.18
ATOM	954	CA	SER	Α	124	16.767	65.373	57.441	1.00 30.34
MOTA	955	С	SER	A	124	16.774	66.616	56.579	1.00 39.98
MOTA	956	o	SER	Α	124	17.434	67.609	56.904	1.00 42.72
ATOM	957	CB	SER	A	124	17.881	64.484	56.905	1.00 31.00
ATOM	958	OG	SER			18.222	63.434	57.794	1.00 41.86
ATOM	959	N	GLY			16.061	66.515	55.460	1.00 33.12
ATOM	960	CA	GLY			16.018	67.566	54.465	1.00 33.55
ATOM	961	C	GLY			15.115	68.725	54.777	1.00 39.54
ATOM	962	0	GLY			15.324	69.828	54.271	1.00 43.14
ATOM	963	N	LYS			14.105	68.443	55.574	1.00 34.88
ATOM	964	CA	LYS			13.198	69.487	55.950	1.00 35.05
ATOM	965	C	LYS			12.225	69.949	54.863	1.00 43.18
ATOM	966	0	LYS			11.309	70.745	55.156	1.00 43.10
							70.743	56.539	1.00 34.53
ATOM	967	CB	LYS			13.976			
ATOM	968	CG	LYS			15.059	70.188	57.493	1.00 33.17
MOTA	969	CD	LYS			14.496	69.475	58.710	1.00 28.58
ATOM	970	CE	LYS			15.597	69.005	59.656	1.00 35.70
ATOM	971	NZ	LYS			15.099	68.062	60.666	1.00 53.76
ATOM	972	N	GLU	A	127	12.397	69.456	53.632	1.00 34.06

MOTA	973	CA	GLU	Α	127	11.497	69.879	52.579	1.00 32.35
ATOM	974	C	GLU			10.481	68.870	52.125	1.00 41.06
ATOM	975	ō	GLU			9.583	69.214	51.369	1.00 41.24
									1.00 32.73
MOTA	976	CB	GLU			12.231	70.396	51.348	
MOTA	977	CG	GLU			13.167	71.542	51.745	1.00 41.87
MOTA	978	CD	GLU			12.515	72.883	51.595	1.00 68.20
MOTA	979		GLU			11.668	73.152	50.750	1.00 85.44
MOTA	980	OE2	GLU	Α	127	13.008	73.747	52.442	1.00 94.35
MOTA	981	N	HIS	Α	128	10.603	67.636	52.556	1.00 38.36
MOTA	982	CA	HIS	Ά	128	9.649	66.635	52.130	1.00 36.38
ATOM	983	C	HIS	A	128	9.272	65.683	53.241	1.00 34.84
ATOM	984	0	HIS	A	128	10.054	65.414	54.148	1.00 33.92
MOTA	985	CB	HIS	A	128	10.311	65.761	51.062	1.00 39.67
MOTA	986	CG	HIS			10.775	66.438	49.801	1.00 44.07
ATOM	987		HIS			9.885	66.842	48.810	1.00 44.77
ATOM	988		HIS			12.031	66.713	49.378	1.00 44.57
ATOM	989		HIS			10.611	67.349	47.836	1.00 44.22
	990		HIS			11.905	67.291	48.144	1.00 44.43
MOTA			PRO						1.00 30.93
MOTA	991	N				8.084	65.124	53.134	
MOTA	992	CA	PRO			7.662	64.165	54.115	1.00 30.73
MOTA	993	C	PRO			8.383	62.819	53.902	1.00 32.60
ATOM	994	0	PRO	A	129	9.307	62.688	53.088	1.00 30.87
MOTA	995	CB	PRO			6.152	64.031	53.955	1.00 28.47
ATOM	996	CG	PRO	A	129	5.892	64.328	52.506	1.00 28.59
MOTA	997	CD	PRO	Α	129	7.023	65.264	52.115	1.00 29.83
MOTA	998	N	TYR	Α	130	7.991	61.816	54.680	1.00 24.05
ATOM	999	CA	TYR	Α	130	8.641	60.521	54.581	1.00 23.32
MOTA	1000	C	TYR	Α	130	7.739	59.482	55.193	1.00 27.11
ATOM	1001	0	TYR			7.054	59.735	56.169	1.00 25.99
ATOM	1002	CB	TYR	Α	130	9.927	60.574	55.425	1.00 24.39
ATOM	1003	CG	TYR			10.932	59.447	55.270	1.00 26.41
ATOM	1004	CD1				10.681	58.134	55.683	1.00 26.44
ATOM	1005	CD2	TYR			12.195	59.750	54.765	1.00 26.16
ATOM	1005	CE1	TYR			11.650	57.136	55.575	1.00 19.38
	1007	CE2				13.179	58.768	54.644	1.00 26.74
MOTA MOTA	1007	CZ	TYR			12.900	57.463	55.047	1.00 21.41
						13.904		54.915	1.00 24.90
MOTA	1009	OH			130		56.550		1.00 24.90
ATOM	1010	N	LEU			7.704	58.299	54.639	
MOTA	1011	CA	LEU			6.846	57.288	55.247	1.00 26.34
ATOM	1012	C	LEU			7.626	55.976	55.315	1.00 29.76
ATOM	1013	0	LEU			8.394	55.705	54.383	1.00 30.08
ATOM	1014	CB	LEU			5.511	57.120	54.477	1.00 24.01
ATOM	1015	CG	LEU			4.873	55.750	54.658	1.00 25.25
ATOM	1016		LEU			3.923	55.774	55.850	1.00 22.47
MOTA	1017	CD2	LEU	A	131	4.091	55.343	53.420	1.00 26.97
MOTA	1018	N	PHE	Α	132	7.467	55.207	56.412	1.00 24.85
ATOM	1019	CA	PHE	Ą	132	8.122	53.906	56.569	1.00 22.86
ATOM	1020	C	PHE	А	132	7.245	52.905	57.318	1.00 23.01
MOTA	1021	0	PHE	A	132	6.475	53.255	58.209	1.00 20.93
ATOM	1022	CB	PHE	Α	132	9.575	53.929	57.083	1.00 26.88
ATOM	1023	CG	PHE			9.667	54.245	58.567	1.00 29.09
ATOM	1024		PHE			9.345	53.286	59.532	1.00 28.26
ATOM	1025		PHE			10.052	55.514	59.005	1.00 29.01
MOTA	1026		PHE			9.422	53.564	60.899	1.00 23.76
ATOM	1027		PHE			10.124	55.822	60.364	1.00 26.04
ATOM	1027	CZ	PHE			9.808	54.842	61.304	1.00 20.79
	1028	N			132	7.319		56.959	1.00 20.79
ATOM							51.632		
ATOM	1030	CA	SER	A	133	6.487	50.644	57.614	1.00 18.49

ATOM	1031	С	SER	А	133	7.343	49.758	58.499	1.00 20.07
ATOM	1032	ō			133	8.565	49.721	58.408	1.00 20.93
ATOM	1033	СВ			133	5.820	49.721	56.600	1.00 21.00
MOTA	1034	OG			133	6.794	48.889	55.979	1.00 19.33
MOTA	1035	N			134	6.652	49.019	59.349	1.00 17.53
ATOM	1036	CA			134	7.307	48.078	60.224	1.00 16.15
MOTA	1037	С			134	6.253	47.039	60.602	1.00 21.22
MOTA	1038	0	GLN	A	134	5.445	47.228	61.500	1.00 20.50
ATOM	1039	CB	GLN	Α	134	8.094	48.787	61.354	1.00 15.03
ATOM	1040	CG	GLN	A	134	8.497	47.798	62.475	1.00 22.80
MOTA	1041	CD	GLN	A	134	9.449	46.740	61.953	1.00 32.47
MOTA	1042	OE1	GLN	A	134	10.430	47.087	61.278	1.00 20.01
ATOM	1043	NE2	GLN	Α	134	9.174	45.470	62.246	1.00 18.65
ATOM	1044	N	CYS	А	135	6.173	45.933	59.853	1.00 20.27
ATOM	1045	CA			135	5.121	44.948	60.131	1.00 19.65
ATOM	1046	Ç			135	5.386	43.913	61.204	1.00 19.96
ATOM	1047	Õ			135	4.454	43.422	61.822	1.00 16.67
	1048	CB			135	4.662	44.209	58.847	1.00 18.98
MOTA									
ATOM	1049	SG			135	4.157	45.396	57.599	1.00 22.04
MOTA	1050	N			136	6.646	43.517	61.379	1.00 20.85
ATOM	1051	CA			136	6.936	42.489	62.366	1.00 19.49
MOTA	1052	С			136	6.654	43.049	63.750	1.00 17.79
MOTA	1053	0			136	7.052	44.180	64.026	1.00 19.64
MOTA	1054	CB	GLN	Α	136	8.388	41.945	62.208	1.00 18.24
ATOM	1055	CG	GLN	Α	136	8.670	40.708	63.090	1.00 15.69
MOTA	1056	CD	GLN	A	136	10.104	40.218	62.989	1.00 18.82
MOTA	1057	OE1	GLN	Α	136	10.987	40.986	62.591	1.00 21.40
MOTA	1058	NE2	GLN	Α	136	10.344	38.964	63.370	1.00 20.32
ATOM	1059	N	ALA	Α	137	5.965	42.280	64.605	1.00 16.00
ATOM	1060	CA	ALA	A	137	5.459	40.921	64.361	1.00 13.64
ATOM	1061	C	ALA	Α	137	4.096	40.891	63.680	1.00 20.13
ATOM	1062	0	ALA	Α	137	3.915	40.228	62.670	1.00 19.24
ATOM	1063	CB	ALA			5.345	40.115	65.651	1.00 13.33
ATOM	1064	N			138	3.130	41.599	64.237	1.00 17.65
ATOM	1065	CA	ILE			1.812	41.538	63.646	1.00 17.65
ATOM	1066	C	ILE			1.182	42.859	63.250	1.00 17.89
ATOM	1067	0			138	0.080	43.166	63.648	1.00 18.12
ATOM	1068	СВ	ILE			0.905	40.782	64.584	1.00 21.50
ATOM	1069	CG1	ILE			0.909	41.474	65.949	1.00 23.03
	1070	CG2	ILE				39.325	64.715	1.00 23.03
MOTA						1.365			
MOTA	1071	CD1	ILE			-0.197	40.954	66.864	1.00 20.51
ATOM	1072	N	HIS			1.883	43.639	62.477	1.00 14.35
ATOM	1073	CA	HIS			1.347	44.918	62.069	1.00 20.04
ATOM	1074	C	HIS			0.947	44.960	60.586	1.00 22.63
ATOM	1075	0	HIS			0.405	45.970	60.153	1.00 21.50
ATOM	1076	CB	HIS			2.294	46.104	62.418	1.00 20.69
ATOM	1077	CG	HIS			2.542	46.181	63.905	1.00 22.28
ATOM	1078	ND1	HIS	Α	139	1.598	46.682	64.780	1.00 21.42
ATOM	1079	CD2	HIS	Α	139	3.607	45.772	64.641	1.00 20.30
MOTA	1080	CE1	HIS	A	139	2.102	46.574	66.004	1.00 21.50
ATOM	1081	NE2	HIS	A	139	3.316	46.043	65.948	1.00 20.79
ATOM	1082	N	CYS	A	140	1.231	43.891	59.817	1.00 23.70
ATOM	1083	CA	CYS			0.854	43.842	58.393	1.00 20.51
ATOM	1084	C	CYS	A	140	-0.641	44.154	58.238	1.00 18.21
ATOM	1085	0	CYS			-1.080	44.926	57.384	1.00 21.51
ATOM	1086	CB	CYS			1.244	42.523	57.676	1.00 18.69
ATOM	1087	SG	CYS			1.220	42.744	55.865	1.00 23.45
ATOM	1088	N	ARG			-1.403	43.548	59.139	1.00 23.43
ALON	±000		-ING	-	7.47	-1.403	47.J#0	JJ.133	4.00 17.23

ATOM	1089	CA	ARG A	141	-2.849	43.681	59.236	1.00 19.29
MOTA	1090	С	ARG A		-3.305	45.119	59.365	1.00 29.79
ATOM	1091	ō	ARG A		-4.507	45.415	59.189	1.00 29.48
ATOM	1092	СВ	ARG A		-3.435	42.857	60.368	1.00 19.28
			ARG A		-3.041		61.779	1.00 17.77
ATOM	1093	CG				43.331		1.00 17.77
MOTA	1094	CD	ARG A		-3.499	42.358	62.853	
MOTA	1095	NE	ARG A		-2.697	41.124	62.834	1.00 18.11
MOTA	1096	CZ	ARG A		-2.823	40.137	63.712	1.00 23.12
MOTA	1097		ARG A		-3.704	40.177	64.695	1.00 16.74
MOTA	1098	NH2	ARG A		-2.046	39.061	63.605	1.00 17.67
MOTA	1099	N	ALA A	142	-2.326	45.981	59.695	1.00 22.16
MOTA	1100	CA	ALA A	142	-2.572	47.406	59.886	1.00 21.34
MOTA	1101	C	ALA A	142	-2.316	48.113	58.587	1.00 30.29
ATOM	1102	0	ALA A	142	-2.436	49.334	58.521	1.00 28.98
ATOM	1103	CB	ALA A	142	-1.797	48.097	61.022	1.00 18.86
ATOM	1104	N	ILE A	143	-1.929	47.346	57.563	1.00 25.27
ATOM	1105	CA	ILE A		-1.681	47.999	56.299	1.00 24.86
ATOM	1106	C	ILE A		-2.654	47.464	55.249	1.00 33.21
ATOM	1107	ō	ILE A		-3.086	48.191	54.363	1.00 30.61
MOTA	1108	CB	ILE A		-0.279	47.766	55.801	1.00 27.48
		CG1	ILE A		0.735	48.464	56.683	1.00 27.48
MOTA	1109		ILE A					
ATOM	1110	CG2			-0.178	48.243	54.355	1.00 30.86
MOTA	1111	CD1	ILE A		2.134	48.057	56.257	1.00 21.10
ATOM	1112	N	LEU A		-2.968	46.170	55.368	1.00 28.50
ATOM	1113	CA	LEU A		-3.882	45.474	54.469	1.00 27.04
ATOM	1114	C	LEU A		-4.383	44.197	55.122	1.00 31.13
ATOM	1115	0	LEU A	144	-3.786	43.658	56.047	1.00 31.11
MOTA	1116	CB	LEU A	144	-3.260	45.191	53.076	1.00 27.85
MOTA	1117	CG	LEU A	144	-1.930	44.437	53.144	1.00 33.41
ATOM	1118	CD1	LEU A	144	-2.147	42.925	53.111	1.00 34.28
MOTA	1119	CD2	LEU A	144	-0.919	44.879	52.090	1.00 30.37
ATOM	1120	N	PRO A	145	-5.499	43.703	54.628	1.00 28.27
MOTA	1121	CA	PRO A	145	-6.113	42.489	55.143	1.00 25.97
MOTA	1122	C	PRO A	145	-5.306	41.275	54.704	1.00 25.80
MOTA	1123	0	PRO A	145	-4.911	41.145	53.543	1.00 26.89
ATOM	1124	CB	PRO A	145	-7.527	42.445	54.533	1.00 25.97
ATOM	1125	CG	PRO A	145	-7.710	43.760	53.795	1.00 30.32
ATOM	1126	CD	PRO A	145	-6.334	44.377	53.597	1.00 26.43
ATOM	1127	N	CYS A	146	-5.069	40.391	55.649	1.00 23.44
ATOM	1128	CA	CYS A	146	-4.275	39.215	55.366	1.00 22.20
ATOM	1129	С	CYS A		-4.338	38.173	56.478	1.00 25.91
ATOM	1130	0	CYS A	146	-4.902	38.365	57.556	1.00 24.21
ATOM	1131	CB	CYS A		-2.794	39.660	55.211	1.00 22.20
MOTA	1132	SG	CYS A		-2.122	40.656	56.610	1.00 27.07
ATOM	1132	Ŋ	GLN A		-3.724	37.035	56.188	1.00 27.07
MOTA	1134	CA	GLN A		-3.599	36.004	57.192	1.00 23.58
MOTA	1134	C	GLN A		-2.316	36.481	57.865	1.00 28.69
ATOM	1136	O	GLN A		-1.215	36.252	57.340	1.00 22.63
ATOM	1137	CB	GLN A		-3.359	34.659	56.495	1.00 24.70
ATOM	1138	CG	GLN A		-4.631	34.245	55.737	1.00 27.61
ATOM	1139	CD	GLN A		-4.456	32.860	55.173	1.00 26.33
ATOM	1140		GLN A		-3.925	32.699	54.073	1.00 23.99
MOTA	1141	NE2	GLN A		-4.810	31.863	55.964	1.00 18.80
MOTA	1142	N	ASP A		-2.463	37.259	58.942	1.00 20.89
MOTA	1143	CA	ASP A	148	-1.291	37.835	59.571	1.00 18.90
ATOM	1144	С	ASP A	148	-0.592	36.901	60.547	1.00 24.63
MOTA	1145	0	ASP A	148	-0.574	37.083	61.783	1.00 17.53
ATOM	1146	CB	ASP A	148	-1.555	39.263	60.107	1.00 22.11

3.0004	1140	00	a on	7	740	0 200	40 026	60 202	1.00 23.46
ATOM	1147	CG	ASP			-0.290	40.036	60.382	1.00 20.04
MOTA	1148		ASP			0.830	39.631	60.126	
MOTA	1149		ASP			-0.520	41.204	60.918	1.00 15.15
MOTA	1150	N	THR			-0.023	35.882	59.906	1.00 18.46
MOTA	1151	CA	THR			0.687	34.803	60.545	1.00 17.87
MOTA	1152	С	THR	A	149	1.872	34.337	59.711	1.00 21.17
MOTA	1153	0	THR	Α	149	1.851	34.344	58.469	1.00 19.34
MOTA	1154	CB	THR	A	149	-0.253	33.637	60.815	1.00 26.95
ATOM	1155	OG1	THR	Α	149	0.516	32.550	61.300	1.00 22.82
ATOM	1156	CG2	THR	A	149	-0.967	33.249	59.523	1.00 21.04
ATOM	1157	N	PRO	Α	150	2.955	34.037	60.439	1.00 22.13
ATOM	1158	CA	PRO	Α	150	4.193	33.603	59.793	1.00 19.85
ATOM	1159	С	PRO			4.062	32.165	59.262	1.00 21.47
ATOM	1160	0	PRO			4.957	31.652	58.608	1.00 20.72
MOTA	1161	CB	PRO			5.303	33.687	60.879	1.00 15.21
ATOM	1162	CG	PRO			4.598	33.656	62.214	1.00 16.09
		CD	PRO			3.182	34.142	61.931	1.00 19.51
ATOM	1163						31.502	59.556	1.00 20.72
ATOM	1164	N	SER			2.946			
ATOM	1165	CA	SER			2.753	30.139	59.123	1.00 19.30
ATOM	1166	C	SER			2.344	30.061	57.674	1.00 24.34
ATOM	1167	0	SER			2.298	28.979	57.111	1.00 24.80
ATOM	1168	CB	SER			1.721	29.408	59.969	1.00 22.49
ATOM	1169	OG	SER			0.452	30.037	59.850	1.00 23.08
MOTA	1170	N	VAL	Α	152	2.082	31.215	57.085	1.00 22.82
MOTA	1171	CA	VAL	Α	152	1.685	31.325	55.685	1.00 19.43
MOTA	1172	С	VAL	А	152	2.725	32.126	54.909	1.00 22.28
MOTA	1173	0	VAL	Α	152	3.185	33.171	55.367	1.00 23.44
ATOM	1174	CB	VAL	Α	152	0.296	31.991	55.596	1.00 19.43
MOTA	1175	CG1	VAL	Α	152	-0.092	32.406	54.175	1.00 16.67
ATOM	1176	CG2	VAL	Α	152	-0.781	31.119	56.239	1.00 19.27
ATOM	1177	N	LYS	Α	153	3.106	31.656	53.706	1.00 21.18
MOTA	1178	CA	LYS	Α	153	4.085	32.363	52.891	1.00 17.74
MOTA	1179	C	LYS	Α	153	3.527	32.635	51.521	1.00 21.28
MOTA	1180	0	LYS	Α	153	2.866	31.793	50.953	1.00 23.85
ATOM	1181	CB	LYS	Α	153	5.402	31.603	52.767	1.00 21.27
ATOM	1182	CG	LYS	Α	153	6.115	31.460	54.112	1.00 21.51
ATOM	1183	CD	LYS			7.546	30.998	53.962	1.00 21.26
ATOM	1184	CE	LYS			8.143	30.501	55.268	1.00 22.91
ATOM	1185	NZ	LYS			9.585	30.192	55.152	1.00 21.73
ATOM	1186	N	LEU			3.794	33.808	50.990	1.00 18.71
ATOM	1187	CA	LEU			3.268	34.151	49.675	1.00 21.43
ATOM	1188	С	LEU			4.245	34.964		
ATOM	1189	0	LEU			5.175	35.574	49.459	1.00 24.62
ATOM	1190	СВ	LEU			2.001	35.045	49.770	1.00 22.21
ATOM	1191	CG	LEU			2.136	36.216	50.782	1.00 27.62
ATOM	1192		LEU			1.461	37.505	50.309	1.00 25.48
ATOM	1192		LEU			1.539	35.818	52.132	1.00 28.38
			THR			3.982	34.986	47.604	1.00 24.13
ATOM	1194	N							
ATOM	1195	CA	THR			· ·	35.831	46.784	1.00 23.94
ATOM	1196	C	THR				37.100	46.641	1.00 23.99
ATOM	1197	0	THR			2.791	37.148	47.030	1.00 24.22
ATOM	1198	CB			155	5.109	35.211	45.401	1.00 29.86
ATOM	1199		THR			3.917	34.628	44.909	1.00 36.32
ATOM	1200	CG2	THR			6.215	34.173	45.519	1.00 16.93
MOTA	1201	N	TYR				38.129	46.059	1.00 25.56
MOTA	1202	CA	TYR	A	156	3.766	39.336	45.874	1.00 25.78
MOTA	1203	C	TYR	A	156	4.359	40.271	44.856	1.00 25.37
ATOM	1204	0	TYR	A	156	5.552	40.309	44.566	1.00 29.83

ATOM	1205	CB	TYR A	A 156	3.525	40.115	47.183	1.00 27.00
ATOM	1206	CG	TYR A	A 156	4.670	41.016	47.641	1.00 27.39
ATOM	1207	CD1	TYR A		4.801	42.315	47.146	1.00 30.16
MOTA	1208	CD2	TYR A		5.595	40.604	48.607	1.00 25.30
ATOM	1209		TYR A		5.821	43.164	47.579	1.00 33.17
MOTA	1210	CE2	TYR A		6.619	41.443	49.051	1.00 25.54
ATOM	1211	CZ		156	6.732	42.746	48.553	1.00 39.24
MOTA	1212	ОН	TYR A		7.722	43.618	49.005	1.00 26.94
ATOM	1213	N		1 157	3.468	41.057	44.314	1.00 25.18
ATOM	1214	CA		1 157	3.850	42.069	43.361	1.00 26.36
ATOM	1215	C		157	3.121	43.339	43.762	1.00 26.72
ATOM	1216	ō	THR A		2.006	43.287	44.271	1.00 29.15
ATOM	1217	СВ		1 157	3.556	41.663	41.903	1.00 38.57
MOTA	1218	OG1	THR A		2.297	41.030	41.834	1.00 38.99
ATOM	1219	CG2	THR A		4.639	40.682	41.499	1.00 35.90
MOTA	1220	N	ALA A		3.753	44.470	43.552	1.00 28.59
ATOM	1221	CA	ALA A		3.100	45.700	43.942	1.00 33.23
ATOM	1222	C	ALA A		3.495	46.868	43.051	1.00 37.76
ATOM	1223	0	ALA A		4.598	46.946	42.482	1.00 37.70
ATOM	1224	СВ	ALA A		3.487	46.038	45.382	1.00 34.39
ATOM	1225	N	GLU A		2.557	47.793	42.962	1.00 34.39
ATOM	1226	CA		A 159	2.779	49.011	42.213	1.00 38.54
ATOM	1227	C		A 159	2.305	50.109	43.125	1.00 33.69
		0	GLU A		1.204	50.050	43.690	1.00 33.03
ATOM ATOM	1228 1229	СВ		A 159	2.119	49.064	40.829	1.00 23.21
ATOM	1230	CG		A 159	1.120	47.914	40.600	1.00 42.31
	1231	CD		A 159	1.146	47.437	39.182	1.00 75.37
MOTA MOTA	1231	OE1			0.467	47.937	38.296	1.00 33.03
ATOM		OE2	GLU A		2.010	46.464	39.021	1.00 77.74
ATOM	1233 1234	N	VAL A		3.181	51.064	43.345	1.00 30.74
ATOM	1234	CA	VAL A		2.726	52.053	44.289	1.00 30.74
ATOM	1236	C	VAL A		2.872	53.454	43.745	1.00 36.18
ATOM	1237	0	VAL A		3.942	53.801	43.239	1.00 30.10
ATOM	1238	СВ	VAL A		3.367	51.832	45.665	1.00 31.25
ATOM	1239	CG1	VAL A		4.614	50.978	45.535	1.00 32.36
ATOM	1240	CG2	VAL 2		3.697	53.130	46.385	1.00 27.21
ATOM	1241	N		161	1.776	54.222	43.839	1.00 34.59
MOTA	1242	CA		161	1.825	55.583	43.353	1.00 33.57
ATOM	1243	C		161	2.245	56.562	44.417	1.00 35.27
ATOM	1244	ō		161	1.623	56.619	45.487	1.00 31.96
MOTA	1245	CB		161	0.547	56.111	42.745	1.00 33.76
ATOM	1246	OG	SER A		0.919			1.00 38.24
ATOM	1247	N	VAL A		3.285	57.313	44.054	1.00 35.28
ATOM	1248	CA	VAL A		3.825		44.924	1.00 36.08
ATOM	1249	C	VAL 2		4.182	59.588	44.159	1.00 43.76
ATOM	1250	ō	VAL A		4.516	59.520	42.981	1.00 41.88
MOTA	1251	CB	VAL A		5.095	57.910	45.667	1.00 32.84
ATOM	1252		VAL A		4.886		46.447	1.00 29.71
ATOM	1253	CG2	VAL A		6.294	57.870	44.722	1.00 30.90
ATOM	1254	N	PRO A		4.151		44.905	1.00 38.10
ATOM	1255	CA	PRO A		4.485	62.002	44.432	1.00 34.34
ATOM	1256	C.	PRO A		5.769		43.679	
ATOM	1257	ō	PRO A		6.785		44.193	1.00 45.19
ATOM	1258	CB	PRO A		4.577	62.867	45.689	1.00 35.12
ATOM	1259	CG	PRO A		3.694	62.203	46.730	1.00 38.80
ATOM	1260	CD	PRO A			60.787	46.223	1.00 35.96
ATOM	1261	N	LYS A		5.662		42.444	
ATOM	1262	CA	LYS A		6.755		41.497	1.00 46.89

ATOM	1263	C	LYS A	164	8.111	62.681	42.151	1.00 46.24
MOTA	1264	0	LYS A	164	9.119	62.088	41.784	1.00 46.96
ATOM	1265	CB	LYS A	164	6.556	63.551	40.440	1.00 55.91
MOTA	1266	CG	LYS A	164	5.133	63.813	39.942	1.00 97.37
ATOM	1267	CD	LYS A	164	5.012	64.953	38.913	1.00100.00
MOTA	1268	CE	LYS I	164	5.120	64.558	37.434	1.00100.00
ATOM	1269	NZ	LYS A	164	3.833	64.450	36.718	1.00100.00
MOTA	1270	N	GLU 1	165	8.164	63.595	43.102	1.00 42.61
ATOM	1271	CA	GLU 1	165	9.422	63.941	43.749	1.00 45.37
ATOM	1272	C	GLU A	165	10.005	62.929	44.747	1.00 47.34
ATOM	1273	0	GLU 1	165	11.156	63.001	45.179	1.00 43.70
ATOM	1274	CB	GLU A	165	9.349	65.366	44.343	1.00 47.53
ATOM	1275	CG	GLU A	165	8.275	65.541	45.446	1.00 66.49
ATOM	1276	CD	GLU A	165	6.837	65.640	44.991	1.00 96.79
MOTA	1277	OE1	GLU A	165	6.436	65.365	43.864	1.00 99.56
MOTA	1278	OB2	GLU A	165	6.056	66.058	45.964	1.00 77.24
ATOM	1279	N	LEU A	166	9.197	61.958	45.118	1.00 44.94
ATOM	1280	CA	LEU A	166	9.647	60.996	46.084	1.00 40.65
ATOM	1281	C	LEU A	166	9.908	59.636	45.497	1.00 50.07
ATOM	1282	0	LEU A	166	9.354	59.307	44.443	1.00 52.03
ATOM	1283	CB	LEU A		8.566	60.917	47.170	1.00 35.62
ATOM	1284	CG	LEU A		8.264	62.286	47.766	1.00 31.47
ATOM	1285		LEU A		7.234	62.081	48.848	1.00 29.41
ATOM	1286	CD2	LEU A		9.521	62.927	48.364	1.00 25.32
ATOM	1287	N	VAL A		10.744	58.884	46.229	1.00 43.25
ATOM	1288	CA	VAL A		11.112	57.508	45.933	1.00 39.13
MOTA	1289	С	VAL A		10.432	56.490	46.855	1.00 44.52
MOTA	1290	0	VAL I		10.327	56.679	48.074	1.00 39.15
ATOM	1291	CB	VAL A		12.592	57.293	46.083	1.00 37.94
ATOM	1292	CG1	VAL A	167	12.920	55.922	45.515	1.00 35.52
ATOM	1293	CG2	VAL A	167	13.303	58.401	45.345	1.00 37.13
ATOM	1294	N	ALA A	168	9.998	55.394	46.233	1.00 39.32
MOTA	1295	CA	ALA A	168	9.363	54.288	46.918	1.00 34.98
ATOM	1296	C	ALA A	168	10.209	53.034	46.762	1.00 40.61
MOTA	1297	0	ALA A	168	10.720	52.782	45.671	1.00 40.08
ATOM	1298	CB	ALA A	168	7.957	54.003	46.427	1.00 33.16
MOTA	1299	N	LEU A	169	10.380	52.295	47.876	1.00 32.03
MOTA	1300	CA	LEU A	169	11.104	51.038	47.926	1.00 27.11
MOTA	1301	С	LEU A	169	10.289	50.039	48.717	1.00 32.61
ATOM	1302	0	LEU A	169	9.460	50.400	49.544	1.00 33.15
MOTA	1303	CB	LEU A	169	12.543	51.071	48.449	1.00 25.35
MOTA	1304	CG	LEU A	169	13.362	52.250	47.964	1.00 29.91
MOTA	1305	CD1	LEU A	169	14.686	52.206	48.708	1.00 29.99
ATOM	1306	CD2	LEU A	169	13.676	52.118	46.482	1.00 29.66
ATOM	1307	N	MET A	170	10.495	48.764	48.417	1.00 31.01
MOTA	1308	CA	MET P	170	9.811	47.680	49.081	1.00 25.79
MOTA	1309	C	MET A	170	10.757	46.537	49.309	1.00 24.72
ATOM	1310	0	MET A	170	11.896	46.474	48.835	1.00 23.26
MOTA	1311	CB	MET A	170	8.569	47.164	48.337	1.00 28.25
MOTA	1312	CG	MET A	170	7.556	48.274	48.171	1.00 31.25
MOTA	1313	SD	MET A	170	5.901	47.652	47.812	1.00 35.46
MOTA	1314	CE	MET A	170	5.341	46.854	49.347	1.00 30.63
ATOM	1315	N	SER A	171	10.265	45.599	50.078	1.00 25.49
MOTA	1316	CA	SER A	171	11.080	44.433	50.331	1.00 23.48
ATOM	1317	С	SER A	171	10.947	43.519	49.087	1.00 26.82
ATOM	1318	0	SER A	171	10.414	42.426	49.110	1.00 22.63
MOTA	1319	CB	SER A	171	10.623	43.790	51.641	1.00 18.95
ATOM	1320	OG	SER A	171	9.230	43.521	51.646	1.00 24.18

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MOTA	1321	N	ALA			11.378	43.996	47.944	1.00 28.35
MOTA	1322	CA	ALA			11.234	43.201	46.752	1.00 28.47
MOTA	1323	C	ALA	A 1	72	12.201	43.688	45.722	1.00 31.99
MOTA	1324	0	ALA	A 1	72	12.997	44.593	45.971	1.00 30.63
ATOM	1325	СВ	ALA			9.829	43.376	46.201	1.00 29.09
ATOM	1326	N		A 1		12.116		44.546	1.00 34.66
							43.086		
ATOM	1327	CA	ILE			12.998	43.523	43.461	1.00 34.83
ATOM	1328	C	ILE	A 1	73	12.335	44.698	42.748	1.00 30.47
MOTA	1329	0	ILE	A 1	73	11.131	44.679	42.428	1.00 26.31
MOTA	1330	CB	ILE	A 1	73	13.395	42.387	42.489	1.00 39.20
MOTA	1331	CG1	ILE	A 1	73	14.129	41.209	43.136	1.00 36.75
ATOM	1332	CG2	ILE			14.187	42.873	41.289	1.00 44.70
ATOM	1333		ILB			15.550	41.465	43.629	1.00 30.83
MOTA	1334	N	ARG			13.099	45.770	42.566	1.00 34.59
ATOM	1335	CA	ARG			12.570	46.949	41.885	1.00 38.22
ATOM	1336	C	ARG			12.357	46.486	40.452	1.00 53.38
MOTA	1337	0	ARG	A 1	74	13.316	46.011	39.836	1.00 51.64
MOTA	1338	CB	ARG	A 1	74	13.605	48.057	41.889	1.00 33.91
MOTA	1339	CG	ARG	A 1	74	13.671	48.862	43.182	1.00 39.95
ATOM	1340	CD	ARG			14.912	49.754	43.233	1.00 34.61
MOTA	1341	NE	ARG			16.083	49.015	43.674	1.00 62.75
MOTA	1342	$\mathbf{C}\mathbf{Z}$	ARG			17.292	49.144	43.151	1.00 81.12
MOTA	1343		ARG			17.505	50.000	42.133	1.00 38.29
MOTA	1344	NH2	ARG	A 1	74	18.276	48.393	43.686	1.00 52.86
MOTA	1345	N	ASP	A 1	75	11.119	46.550	39.968	1.00 59.05
MOTA	1346	CA	ASP	A 1	75	10.801	46.044	38.640	1.00 65.93
MOTA	1347	C ·	ASP			10.737	47.100	37.551	1.00 83.82
ATOM	1348	0	ASP			10.852	46.833	36.342	1.00 91.77
ATOM	1349	CB	ASP			9.567	45.123	38.677	1.00 67.87
ATOM	1350	CG	ASP			9.102	44.615	37.340	1.00 73.42
ATOM	1351		ASP			9.855	44.262	36.438	1.00 75.53
MOTA	1352	OD2	ASP			7.785	44.579	37.288	1.00 72.28
MOTA	1353	N	GLY	A 1	76	10.553	48.327	38.002	1.00 77.53
MOTA	1354	CA	GLY	A 1	76	10.469	49.438	37.089	1.00 77.66
ATOM	1355	C	GLY	A 1	76	9.804	50.660	37.704	1.00 82.05
ATOM	1356	0	GLY	A 1	76	9.128	50.560	38.731	1.00 79.00
MOTA	1357	N	GLU			9.995	51.815	37.044	1.00 81.79
ATOM	1358	CA	GLU			9.441	53.110	37.460	1.00 81.14
ATOM	1359	C	GLU			8.800	53.917	36.333	1.00 86.27
			GLU						
MOTA	1360	0				9.419	54.218	35.313	1.00 88.04
MOTA	1361	CB	GLU		•	10.468	53.977	38.210	1.00 82.57
MOTA	1362	CG	GLU	A 1	77	11.115	55.073	37.340	1.00 93.83
MOTA	1363	CD	GLU	A 1	77	11.662	56.220	38.142	1.00 98.70
MOTA	1364	OE1	GLU	A 1	77	11.271	57.364	38.000	1.00 62.12
ATOM	1365	OE2	GLU	A 1	77	12.591	55.841	38.995	1.00 78.07
MOTA	1366	N	THR			7.533	54.280	36.503	1.00 82.50
ATOM	1367	CA	THR			6.844	55.029	35.463	1.00 81.70
ATOM	1368	C	THR			5.796	56.028	35.929	1.00 86.29
MOTA	1369	0	THR			5.013	55.811	36.856	1.00 88.24
MOTA	1370	CB	THR			6.159	54.082	34.451	1.00 79.12
MOTA	1371		THR			4.886	53.673	34.940	1.00 55.06
MOTA	1372	CG2	THR	A 1	78	7.052	52.877	34.149	1.00 83.66
MOTA	1373	N	PRO	A 1	79	5.764	57.151	35.223	1.00 78.88
ATOM	1374	CA	PRO			4.768	58.141	35.519	1.00 74.33
ATOM	1375	C	PRO			3.379	57.551	35.463	1.00 70.74
ATOM	1376	o	PRO			3.038	56.679	34.668	1.00 66.51
		CB	PRO			4.879			1.00 76.32
ATOM	1377						59.210	34.446	
MOTA	1378	CG	PRO	wT	13	6.182	58.950	33.705	1.00 83.60

ATOM	1379	CD	PRO A	179	6.791	57.663	34.270	1.00 80.56
ATOM	1380	N	ASP A		2.597	58.025	36.405	1.00 66.91
ATOM	1381	CA	ASP A		1.242	57.625	36.543	1.00 66.81
							35.459	1.00 86.40
MOTA	1382	C	ASP 1		0.510	58.373		1.00 89.77
MOTA	1383	0	ASP A		1.063	59.307	34.883	
MOTA	1384	CB	ASP A		0.808	58.093	37.946	1.00 63.63
ATOM	1385	CG	ASP A	180	-0.408	57.401	38.482	1.00 74.66
ATOM	1386	OD1	ASP A	180	-0.968	56.519	37.870	1.00 83.41
MOTA	1387	OD2	ASP A	180	-0.812	57.829	39.655	1.00 69.97
ATOM	1388	N	PRO A	181	-0.732	57.992	35.187	1.00 90.42
ATOM	1389	CA	PRO A	181	-1.584	58.645	34.218	1.00 91.10
ATOM	1390	C	PRO A		-2.945	58.619	34.873	1.00 91.79
ATOM	1391	ō	PRO A			57.724	34.638	1.00 87.89
	1392	CB	PRO A		-1.541	57.787	32.929	1.00 94.08
ATOM						56.635	33.200	1.00 98.94
ATOM	1393	CG	PRO A		-0.582			
ATOM	1394	CD	PRO I		-0.115	56.760	34.655	1.00 92.93
MOTA	1395	N	GLU A		-3.175	59.556	35.793	1.00 88.82
MOTA	1396	CA	GLU A		-4.443	59.519	36.506	1.00 89.31
MOTA	1397	С	GLU A	182	-4.808	60.809	37.218	1.00 98.64
MOTA	1398	0	GLU A	182	-5.181	60.787	38.385	1.00 99.08
ATOM	1399	CB	GLU A	182	-4 <i>.</i> 359	58.380	37.528	1.00 90.42
ATOM	1400	CG	GLU A	182	-5.510	57.373	37.391	1.00 98.92
ATOM	1401	CD	GLU A	182	-6.826	58.010	37.750	1.00100.00
ATOM	1402	OE1			-7.465	58.719	36.986	1.00100.00
ATOM	1403	OE2	GLU A		-7.169	57.806	39.003	1.00100.00
ATOM	1404	N	ASP A		-4.704	61.939	36.487	1.00100.00
ATOM		CA	ASP A		-4.952	63.289	37.021	1.00100.00
	1405		ASP A			63.534	38.264	1.00100.00
ATOM	1406	C			-4.112		39.192	1.00100.00
MOTA	1407	0	ASP A		-4.557	64.229		
MOTA	1408	СВ	ASP A		-6.460	63.709	37.195	1.00100.00
ATOM	1409	CG	ASP A		-7.509	62.613	37.228	1.00100.00
MOTA	1410		ASP A		-8.091	62.209	36.225	1.00100.00
ATOM	1411		ASP A		~7.745	62.155	38.451	1.00100.00
ATOM	1412	И	PRO I		-2.878	62.960	38.272	1.00 97.37
MOTA	1413	CA	PRO I	184	-2.075	63.104	39.462	1.00 95.12
MOTA	1414	C	PRO I	184	-0.708	63.687	39.190	1.00 98.12
MOTA	1415	0	PRO A	184	-0.248	63.872	38.049	1.00 96.48
MOTA	1416	CB	PRO A	184	-1.735	61.635	39.703	1.00 96.33
MOTA	1417	CG	PRO I	184	-1.335	61.138	38.314	1.00100.00
MOTA	1418	CD	PRO I	184	-2.110	62.028	37.363	1.00 96.08
ATOM	1419	N	SER A	185	-0.023	63.913	40.311	1.00 92.79
ATOM	1420	CA	SER A		1.347	64.393	40.313	1.00 88.74
ATOM	1421	C	SER A		2.206	63.348	41.012	1.00 81.94
ATOM	1422	ō	SER A		3.066	63.667	41.846	1.00 84.44
ATOM	1423	CB	SER A			65.771	40.914	1.00 93.34
ATOM	1424	OG	SER A			66.419	40.251	1.00100.00
						62.095	40.627	1.00 64.19
ATOM	1425	N	ARG A					
MOTA	1426	CA	ARG A			60.947	41.162	1.00 59.49
MOTA	1427	С	ARG A			60.116	40.116	1.00 59.45
ATOM	1428	0	ARG I			60.227	38.916	1.00 59.05
MOTA	1429	CB	ARG A			60.042	41.958	1.00 55.86
MOTA	1430	CG	ARG A			60.675	42.291	1.00 27.25
MOTA	1431	CD	ARG A	186	-0.548	59.827	43.204	1.00 57.78
ATOM	1432	NE	ARG A	186	0.194	59.220	44.306	1.00 80.89
ATOM	1433	CZ	ARG A	186		59.842	45.420	1.00 97.56
MOTA	1434		ARG A			61.124	45.643	1.00 83.79
ATOM	1435		ARG A			59.142	46.335	1.00 85.34
ATOM	1436	N	LYS A			59.268	40.675	1.00 53.71
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MOTA	1437	CA	LYS A	187	4.904	58.295	39.970	1.00 50.62
MOTA	1438	C	LYS A		4.359	56.988	40.450	1.00 53.26
ATOM	1439	ō	LYS A		3.776	56.881	41.543	1.00 51.61
ATOM			LYS A		6.351	58.266	40.393	1.00 52.26
	1440	CB			7.282			
ATOM	1441	CG	LYS A			59.118	39.571	1.00 54.27
MOTA	1442	CD	LYS A		8.703	58.584	39.606	1.00 55.39
MOTA	1443	CE	LYS A		9.728	59.611	40.051	1.00 31.63
MOTA	1444	NZ	LYS A	187	11.058	59.374	39.481	1.00 46.19
MOTA	1445	N	ILE A	188	4.598	56.025	39.584	1.00 49.44
MOTA	1446	CA	ILE A	188	4.200	54.683	39.845	1.00 48.00
MOTA	1447	C	ILE A	188	5.361	53.694	39.935	1.00 53.77
ATOM	1448	0	ILE A	188	6.057	53.436	38.951	1.00 53.51
ATOM	1449	CB	ILE A		2.753	54.307	39.572	1.00 49.99
MOTA	1450	CG1	ILE A		2.558	52.804	39.554	1.00 51.55
ATOM		CG2	ILE A		2.229	54.973	38.315	1.00 51.74
	1451							1.00 80.62
ATOM	1452	CD1	ILE A		1.336	52.415	40.385	
ATOM	1453	N	TYR A		5.640	53.226	41.166	1.00 45.90
ATOM	1454	CA	TYR A		6.742	52.322	41.402	1.00 40.92
ATOM	1455	C	TYR A		6.330	50.851	41.496	1.00 40.81
ATOM	1456	0	TYR A	189	5.362	50.493	42.188	1.00 39.23
MOTA	1457	CB	TYR A	189	7.528	52.773	42.638	1.00 40.24
ATOM	1458	CG	TYR A	189	8.427	53.968	42.455	1.00 31.23
ATOM	1459	CD1	TYR -A	189	9.711	53.803	41.939	1.00 31.58
ATOM	1460	CD2	TYR A	189	8.046	55.239	42.886	1.00 30.59
ATOM	1461	CE1	TYR A	189	10.593	54.879	41.813	1.00 34.77
ATOM	1462	CE2	TYR A		8.913	56.328	42.764	1.00 31.23
ATOM	1463	CZ	TYR A		10.188	56.151	42.224	1.00 39.57
ATOM	1464	OH	TYR A		11.058	57.218	42.096	1.00 34.19
		N	LYS A		7.123	50.034	40.775	1.00 39.37
MOTA	1465							1.00 39.51
ATOM	1466	CA	LYS A		6.971	48.589	40.627	
ATOM	1467	C	LYS A		8.024	47.700	41.305	1.00 35.21
MOTA	1468	0	LYS A		9.235	47.928	41.275	1.00 32.65
MOTA	1469	CB	LYS A		6.775	48.214	39.161	1.00 43.13
ATOM	1470	CG	LYS A		5.359	48.468	38.642	1.00 68.06
ATOM	1471	CD	LYS A	190	5.308	49.170	37.290	1.00 80.52
MOTA	1472	CE	LYS A	190	5.559	48.262	36.089	1.00100.00
ATOM	1473	NZ	LYS A	190	6.556	48.792	35.135	1.00100.00
ATOM	1474	N	PHE A	191	7.502	46.641	41.907	1.00 32.67
MOTA	1475	CA	PHE A	191	8.296	45.679	42.651	1.00 31.95
MOTA	1476	C	PHE A	191	7.784	44.249	42.523	1.00 33.46
ATOM	1477	0	PHE A	191	6.571	43.970	42.462	1.00 32.26
MOTA	1478	CB	PHE A		8.182	46.052	44.157	1.00 31.15
ATOM	1479	CG	PHE A		8.495	47.505	44.457	1.00 25.52
ATOM	1480		PHE A		9.813	47.930	44.618	1.00 25.46
MOTA	1481		PHE A		7.477	48.447	44.582	1.00 28.24
ATOM	1482		PHE A		10.131	49.261	44.884	1.00 27.83
					7.769	49.786	44.841	1.00 30.83
ATOM	1483	CE2					44.999	
ATOM	1484	CZ	PHE A		9.095	50.188		1.00 29.60
MOTA	1485	N	ILE A		8.732	43.324	42.567	1.00 33.50
ATOM	1486	CA	ILE A		8.358	41.918	42.502	1.00 35.54
MOTA	1487	С	ILE A		9.089	41.083	43.523	1.00 27.79
MOTA	1488	0	ILE A		10.299	41.147	43.644	1.00 26.68
MOTA	1489	CB	ILE A	192	8.521	41.221	41.133	1.00 40.49
ATOM	1490	CG1	ILE A	192	9.982	41.182	40.709	1.00 43.06
ATOM	1491	CG2	ILE A	192	7.753	41.957	40.052	1.00 44.56
ATOM	1492	CD1	ILE A	192	10.729	39.903	41.096	1.00 83.58
ATOM	1493	N	GLN A		8.322	40.266	44.204	1.00 29.76
ATOM	1494	CA	GLN A		8.903	39.386	45.177	1.00 30.86
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ATOM	1495	C	GLN	A	193	8.505	37.983	44.831	1.00	28.66
MOTA	1496	0	GLN	A	193	7.406	37.529	45.181	1.00	27.73
ATOM	1497	CB	GLN			8.625	39.729	46.669	1.00	32.91
ATOM	1498	CG	GLN			9.339	38.787	47.682		24.21
	1499	CD	GLN			10.864	38.777	47.631		20.52
ATOM			GLN			11.448	37.867	47.031		28.37
MOTA	1500									21.68
MOTA	1501		GLN			11.535	39.752	48.272		
ATOM	1502	N	LYS			9.477	37.342	44.163		30.49
MOTA	1503	CA	LYS			9.401	35.950	43.684		34.51
MOTA	1504	С	LYS			9.563	34.882	44.787		40.98
MOTA	1505	0	LYS			9.071	33.753	44.652	1.00	39.86
ATOM	1506	CB	LYS	A	194	10.319	35.663	42.485	1.00	36.96
MOTA	1507	ÇG	LYS	Α	194	9.652	35.946	41.148	1.00	60.69
ATOM	1508	CD	LYS	Α	194	10.655	36.201	40.037	1.00	71.49
ATOM	1509	CE	LYS	A	194	10.024	36.595	38.711	1.00	70.55
ATOM	1510	NZ	LYS	Α	194	11.032	37.075	37.745	1.00	96.02
MOTA	1511	N	VAL			10.268	35.201	45.882	1.00	28.85
MOTA	1512	CA	VAL			10.383	34,203	46.929		24.96
ATOM	1513	C	VAL			9.195	34.303	47.895		28.79
	1514	0	VAL			8.820	35.398	48.331		30.73
MOTA		CB	VAL			11.716	34.313	47.649		28.17
MOTA	1515		VAL					48.380		31.42
ATOM	1516					11.907	33.002			
ATOM	1517	CG2	VAL			12.875	34.513	46.672		26.41
MOTA	1518	N	PRO			8.540	33.179	48.222		23.07
ATOM	1519	CA	PRO			7.423	33.248	49.134		20.29
ATOM	1520	C	PRO			7.931	33.653	50.519		26.98
MOTA	1521	0	PRO			8.932	33.121	51.013		23.36
MOTA	1522	CB	PRO	Α	196	6.769	31.869	49.189		19.98
MOTA	1523	CG	PRO	A	196	7.665	30.923	48.414	1.00	24.10
MOTA	1524	CD	PRO	Α	196	8.673	31.798	47.691	1.00	23.37
MOTA	<b>1525</b> `	N	ILE	Α	197	7.254	34.639	51.105	1.00	25.17
MOTA	1526	CA	ILE	Α	197	7.642	35.141	52.407	1.00	22.96
MOTA	1527	C	ILE	A	197	6.431	35.273	53.312	1.00	25.79
ATOM	1528	0	ILE	Α	197	5.281	35.395	52.833	1.00	22.84
MOTA	1529	CB	ILE	A	197	8.228	36.535	52.230	1.00	23.36
MOTA	1530	CG1	ILE	Α	197	7.164	37.355	51.526	1.00	25.01
ATOM	1531	CG2	ILE	A	197	9.509	36.554	51.399	1.00	21.56
ATOM	1532	CD1	ILE	A	197	7.429	38.859	51.634	1.00	22.37
ATOM	1533	N	PRO			6.720	35.261	54.633	1.00	20.61
MOTA	1534	CA	PRO	A	198	5.687	35.453	55.660	1.00	15.95
MOTA	1535	C	PRO			5.298	36.916	55.491	1.00	17.92
ATOM	1536	ō	PRO			6.185	37.687	55.086		17.98
MOTA	1537	СВ	PRO			6.399	35.297	57.011		15.44
ATOM	1538	CG	PRO			7.881	35.462	56.704		18.48
ATOM	1539	CD	PRO			8.088	35.164	55.223		15.86
						4.030	37.325	55.748		18.80
ATOM	1540	N	CYS			3.646		55.529		19.91
ATOM	1541	CA	CYS				38.750 39.820	56.400		
ATOM	1542	C	CYS			4.363		56.400		22.70 19.22
ATOM	1543	0	CYS			4.392	41.030			
ATOM	1544	CB	CYS			2.118	38.964	55.554		17.27
MOTA	1545	SG	CYS			1.359	38.495	57.126		22.02
MOTA	1546	N	TYR			4.963	39.375	57.512		20.55
MOTA	1547	CA	TYR			5.652	40.318	58.356		19.65
MOTA	1548	С	TYR			6.894	40.879	57.724		24.32
MOTA	1549	0	TYR			7.493	41.812	58.252		26.71
MOTA	1550	CB	TYR	A	200	5.978	39.763	59.731		17.18
ATOM	1551	CG	TYR	A	200	7.086	38.751	59.710	1.00	17.72
ATOM	1552	CD1	TYR	A	200	8.409	39.169	59.846	1.00	16.87

ATOM	1553	CD2	TYR	А	200	6.802	37.385	59.642	1.00 18.65
MOTA	1554	CE1	TYR			9.432	38.221	59.864	1.00 14.67
ATOM	1555	CE2	TYR			7.822	36.434	59.699	1.00 18.76
	1556								
ATOM		CZ	TYR			9.146	36.855	59.802	1.00 20.42
MOTA	1557	OH	TYR			10.169	35.921	59.858	1.00 17.42
MOTA	1558	N	LEU			7.280	40.312	56.590	1.00 16.84
MOTA	1559	CA	LEU			8.436	40.765	55.864	1.00 14.82
ATOM	1560	C	LEU	A	201	8.078	41.787	54.785	1.00 24.60
MOTA	1561	0	LEU	A	201	8.956	42.269	54.044	1.00 22.81
MOTA	1562	CB	LEU	A	201	9.138	39.532	55.256	1.00 17.56
ATOM	1563	CG	LEU	Α	201	9.910	38.670	56.257	1.00 16.40
ATOM	1564		LEU			10.674	37.594	55.489	1.00 15.76
ATOM	1565		LEU			10.900	39.523	57.040	1.00 16.02
ATOM	1566	N	ILE			6.761	42.084	54.657	1.00 24.26
		CA	ILE			6.293	43.088	53.698	1.00 20.28
ATOM	1567								
MOTA	1568	C	ILE			6.703	44.481	54.226	1.00 25.46
MOTA	1569	0	ILE			6.447	44.850	55.393	1.00 26.48
MOTA	1570	CB	ILE			4.784	43.015	53.489	1.00 21.23
MOTA	1571	CG1	ILE	A	202	4.433	41.851	52.593	1.00 17.03
MOTA	1572	CG2	ILE	Α	202	4.312	44.312	52.826	1.00 23.71
ATOM	1573	CD1	ILE	Α	202	2.917	41.692	52.437	1.00 22.39
MOTA	1574	N	ALA	A	203	7.375	45.252	53.384	1.00 17.97
ATOM	1575	CA	ALA	Α	203	7.860	46.568	53.782	1.00 22.84
ATOM	1576	C	ALA	Α	203	7.849	47.593	52.658	1.00 30.22
MOTA	1577	0	ALA			8.125	47.284	51.494	1.00 27.07
ATOM	1578	CB	ALA			9.284	46.554	54.360	1.00 20.04
ATOM	1579	N	LEU			7.589	48.823	53.117	1.00 25.33
MOTA	1580	CA	LEU			7.503	50.023	52.300	1.00 23.92
		C	LEU						1.00 23.32
ATOM	1581					8.105	51.242	53.003	
ATOM	1582	0	LEU			8.004	51.419	54.219	1.00 24.19
ATOM	1583	CB	LEU			6.008	50.269	51.933	1.00 22.42
ATOM	1584	CG	LEU			5.702	51.492	51.036	1.00 24.14
MOTA	1585		LEU			6.204	51.374	49.593	1.00 17.81
MOTA	1586	CD2	LEU	Α	204	4.210	51.792	51.073	1.00 26.36
MOTA	1587	N	VAL	A	205	8.726	52.078	52.178	1.00 26.54
MOTA	1588	CA	VAL			9.333	53.346	52.518	1.00 25.64
ATOM	1589	C	VAL	A	205	9.152	54.299	51.363	1.00 30.84
ATOM	1590	0	VAL	A	205	9.382	53.955	50.204	1.00 29.34
ATOM	1591	CB	VAL	A	205	10.827	53.298	52.785	1.00 27.61
ATOM	1592	CG1	VAL	Α	205	11.551	52.637	51.625	1.00 25.87
MOTA	1593	CG2	VAL			11.359	54.717	53.021	1.00 27.64
ATOM	1594	N	VAL			8.763	55.503	51.704	1.00 28.24
ATOM	1595	CA	VAL			8.600	56.544	50.709	1.00 27.85
ATOM	1596	C	VAL			9.246	57.813	51.206	1.00 30.43
MOTA	1597	o	VAL				58.289	52.320	1.00 31.87
						•			
ATOM	1598	CB	VAL			7.145	56.882	50.379	1.00 30.77
ATOM	1599		VAL			7.113	57.870	49.200	1.00 33.19
ATOM	1600		VAL			6.336	55.620	50.078	1.00 26.71
ATOM	1601	N	GLY			10.098	58.357	50.363	1.00 25.40
MOTA	1602	CA	GLY			10.706	59.596	50.760	1.00 28.31
ATOM	1603	C	GLY	A	207	11.654	60.097	49.716	1.00 35.37
ATOM	1604	0	GLY	A	207	11.688	59.549	48.615	1.00 34.13
ATOM	1605	N	ALA	A	208	12.414	61.121	50.123	1.00 33.99
MOTA	1606	CA	ALA			13.414	61.776	49.290	1.00 35.45
ATOM	1607	c	ALA			14.746	61.041	49.360	1.00 38.58
ATOM	1608	ō	ALA			15.799	61.544	49.784	1.00 39.24
ATOM	1609	CB	ALA			13.502	63.268	49.619	1.00 36.08
ATOM	1610	N	LEU			14.676	59.796	48.916	1.00 34.99
ALUM	1010	74	. بالديد		203	14.070	35.750	=0.710	2.00 34.33

MOTA	1611	CA	LEU	Α	209	15.821	58.918	48.962	1.00 32.15
MOTA	1612	C	LEU			16.730	59.052	47.800	1.00 43.00
MOTA	1613	Ö	LEU			16.298	59.315	46.679	1.00 44.56
ATOM	1614	CB	LEU .			15.384	57.449	49.000	1.00 30.82
ATOM	1615	CG	LEU			14.293	57.238	50.030	1.00 34.48
ATOM	1616		LEU .			13.712	55.840	49.875	1.00 31.95
ATOM	1617	CD2	LEU			14.955	57.428	51.386	1.00 31.78
MOTA	1618	N	GLU .	A	210	17.979	58.795	48.156	1.00 39.96
ATOM	1619	CA	GLU .	Α	210	19.130	58.767	47.294	1.00 37.51
MOTA	1620	C	GLU .	Α	210	19.802	57.468	47.652	1.00 45.24
ATOM	1621	0	GLU .	Α	210	19.520	56.916	48.716	1.00 45.87
MOTA	1622	CB	GLU .	Α	210	20.088	59.940	47.570	1.00 39.44
ATOM	1623	CG	GLU .	A	210	19.601	61.256	46.936	1.00 43.88
ATOM	1624	CD	GLU .			20.679	62.289	46.960	1.00 83.62
ATOM	1625	OE1				21.851	62.020	47.179	1.00 69.67
ATOM	1626	OE2				20.217	63.498	46.755	1.00100.00
		N N	SER .			20.661	56.973	46.774	1.00 39.83
ATOM	1627								
ATOM	1628	CA	SER .			21.323	55.719	47.046	1.00 39.26
MOTA	1629	C	SER .			22.763	55.796	46.628	1.00 40.32
MOTA	1630	0	SER .			23.122	56.657	45.861	1.00 47.20
MOTA	1631	CB	SER .			20.662	54.587	46.273	1.00 44.16
ATOM	1632	OG	SER .			20.992	54.685	44.896	1.00 48.01
MOTA	1633	N	ARG :	A	212	23.589	54.915	47.123	1.00 30.46
ATOM	1634	CA	ARG .	Α	212	24.981	54.860	46.737	1.00 30.14
ATOM	1635	C	ARG .	A	212	25.200	53.371	46.539	1.00 38.14
ATOM	1636	0	ARG .	A	212	24.617	52.557	47.252	1.00 38.33
ATOM	1637	CB	ARG	Α	212	25.928	55.449	47.785	1.00 36.60
ATOM	1638	CG	ARG	Α	212	26.973	56.473	47.307	1.00 66.52
ATOM	1639	CD	ARG .	Α	212	26.437	57.592	46.403	1.00 92.22
ATOM	1640	NE	ARG .	A	212	26.336	58.944	46.974	1.00 88.06
ATOM	1641	CZ	ARG .	Α	212	25.429	59.863	46.586	1.00100.00
MOTA	1642	NH1	ARG .	A	212	24.525	59.616	45.636	1.00 63.09
ATOM	1643	NH2				25.405	61.069	47.169	1.00100.00
MOTA	1644	N	GLN			25.985	52.957	45.570	1.00 34.56
ATOM	1645	CA	GLN			26.155	51.533	45.435	1.00 34.71
ATOM	1646	С	GLN			27.453	51.142	46.101	1.00 40.21
ATOM	1647	0	GLN			28.493	51.737	45.826	1.00 41.35
ATOM	1648	CB	GLN :			26.081	51.014	44.000	1.00 36.31
ATOM	1649	CG	GLN :			26.626	49.582	43.946	1.00 49.64
ATOM	1650	CD	GLN			26.775	49.077	42.531	1.00 80.06
	1651	OE1				26.908	47.861	42.312	1.00 77.10
MOTA		NE2				26.753	50.012	41.577	1.00 77.10
ATOM	1652		GLN :						
MOTA	1653	N	ILE .			27.370	50.166	47.007	1.00 35.56
ATOM	1654	CA	ILE .			28.531	49.737	47.760	1.00 32.74
MOTA	1655	C	ILE :			28.947	48.311	47.535	1.00 28.86
MOTA	1656	0	ILE .			29.917	47.897	48.149	1.00 30.02
MOTA	1657	CB	ILE :			28.320	49.957	49.262	1.00 39.00
MOTA	1658		ILE .			27.032	49.265	49.733	1.00 40.79
MOTA	1659		ILE .			28.198	51.447	49.566	1.00 39.90
MOTA	1660	CD1	ILE .	A	214	26.810	49.364	51.247	1.00 39.31
MOTA	1661	N	GLY :	A	215	28.231	47.569	46.691	1.00 29.42
MOTA	1662	CA	GLY :	A	215	28.518	46.166	46.367	1.00 26.41
MOTA	1663	C	GLY :	A	215	27.778	45.743	45.106	1.00 30.00
MOTA	1664	0	GLY :			26.874	46.447	44.669	1.00 35.16
ATOM	1665	N	PRO			28.131	44.608	44.497	1.00 33.24
ATOM	1666	CA	PRO			27.459	44.197	43.262	1.00 33.84
ATOM	1667	C	PRO			25.979	43.984	43.441	1.00 39.13
MOTA	1668	ō	PRO I			25.241	44.145	42.467	1.00 40.02
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N TOM	1660	СВ	PRO	7	216	28.067	42.867	42.793	1.00 34.78
ATOM	1669								
MOTA	1670	CG	PRO			29.020	42.415	43.897	1.00 38.44
MOTA	1671	CD	PRO			29.116	43.556	44.912	1.00 35.07
MOTA	1672	N	ARG	A	217	25.578	43.609	44.662	1.00 23.56
ATOM	1673	CA	ARG	A	217	24.177	43.370	44.909	1.00 21.48
MOTA	1674	С	ARG	A	217	23.679	44.288	46.015	1.00 30.90
MOTA	1675	0	ARG	A	217	22.706	44.002	46.713	1.00 27.14
ATOM	1676	CB	ARG			23.926	41.920	45.247	1.00 22.22
MOTA	1677	CG	ARG			25.122	41.312	45.977	1.00 30.92
							39.839	46.242	1.00 25.36
ATOM	1678	CD	ARG			24.882			
MOTA	1679	NE	ARG			26.009	39.174	46.874	1.00 30.74
MOTA	1680	CZ	ARG			26.020	37.875	47.141	1.00 32.19
MOTA	1681	NH1	ARG	Α	217	24.991	37.088	46.838	1.00 29.57
MOTA	1682	NH2	ARG	A	217	27.090	37.341	47.732	1.00 42.93
MOTA	1683	N	THR	Α	218	24.354	45.426	46.134	1.00 27.52
MOTA	1684	CA	THR	Α	218	23.979	46.331	47.172	1.00 25.01
ATOM	1685	С	THR	А	218	24.154	47.813	46.936	1.00 29.25
MOTA	1686	0	THR			25.256	48.269	46.674	1.00 32.56
ATOM	1687	CB			218	24.877	46.003	48.388	1.00 30.92
			THR			24.591	44.711	48.891	1.00 28.41
ATOM	1688								
ATOM	1689	CG2	THR			24.710	47.060	49.474	1.00 27.73
ATOM	1690	И			219	23.056	48.543	47.133	1.00 25.49
ATOM	1691	CA	LEU			22.997	49.991	47.132	1.00 27.09
MOTA	1692	C	LEU	Α	219	22.572	50.417	48.532	1.00 35.31
MOTA	1693	0	LEU	Α	219	21.748	49.739	49.162	1.00 32.55
MOTA	1694	CB	LEU	Α	219	21.822	50.526	46.319	1.00 29.51
MOTA	1695	CG	LEU	Α	219	22.159	50.812	44.869	1.00 31.54
ATOM	1696	CD1	LEU	A	219	23.162	49.773	44.395	1.00 31.76
ATOM	1697	CD2	LEU	Α	219	20.836	50.658	44.148	1.00 32.31
ATOM	1698	N			220	23.086	51.549	49.001	1.00 31.15
MOTA	1699	CA			220	22.715	52.101	50.289	1.00 31.32
ATOM	1700	C			220	21.720	53.197	50.002	1.00 31.45
	1701	0			220	22.004	54.072	49.190	1.00 31.85
ATOM								51.089	1.00 39.68
ATOM	1702	CB			220	23.878	52.729		
ATOM	1703		VAL			23.538	52.833	52.574	1.00 37.81
ATOM	1704		VAL			25.193	51.970	50.965	1.00 42.41
ATOM	1705	N			221	20.579	53.168	50.665	1.00 28.89
MOTA	1706	CA			221	19.574	54.197	50.471	1.00 30.76
MOTA	1707	C			221	19.317	55.010	51.729	1.00 38.31
MOTA	1708	0	TRP	A	221	19.205	54.446	52.812	1.00 35.62
ATOM	1709	CB	TRP	A	221	18.240	53.555	50.116	1.00 30.66
ATOM	1710	CG	TRP	Α	221	18.321	52.711	48.896	1.00 34.85
ATOM	1711	CD1	TRP	A	221	18.752	51.434	48.798	1.00 37.00
ATOM	1712		TRP			17.952	53.129	47.584	1.00 36.50
ATOM	1713		TRP			18.648	51.014	47.501	1.00 35.82
ATOM	1714	CE2			221	18.154	52.033	46.737	1.00 39.42
ATOM	1715		TRP			17.429	54.325	47.067	1.00 36.65
ATOM	1716		TRP			17.864	52.123	45.374	1.00 38.93
ATOM	1717		TRP			17.124	54.398	45.732	1.00 36.06
ATOM	1718	CH2			221	17.353	53.308	44.897	1.00 36.29
MOTA	1719	N			222	19.172	56.319	51.557	1.00 31.91
MOTA	1720	CA			222	18.877	57.235	52.639	1.00 32.45
MOTA	1721	C	SER	A	222	18.692	58.639	52.086	1.00 40.59
ATOM	1722	0	SER	A	222	18.918	58.901	50.894	1.00 40.28
MOTA	1723	СВ	SER	Α	222	19.941	57.242	53.735	1.00 31.75
ATOM	1724	OG			222	21.077	57.977	53.297	1.00 35.91
ATOM	1725	N			223		59.534	52.972	1.00 31.05
ATOM	1726	CA			223	18.173	60.885	52.539	1.00 28.81
WIO!!	1/20	~A	SHO.	•	443	10.1/3	00.003	72,737	1.00 20.01

ATOM	1727	С	GLU A	223	19.612	61.239	52.186	1.00 38.65
MOTA	1728	0	GLU A		20.566	60.582	52.608	1.00 34.90
ATOM	1729	CB	GLU A		17.638	61.815	53.630	1.00 27.66
ATOM	1730	CG	GLU A		16.099	61.840	53.673	1.00 36.07
	1731	CD	GLU ?		15.540	62.978	54.497	1.00 57.21
ATOM								1.00 40.65
MOTA	1732	OE1			15.442	64.108	54.071	
MOTA	1733		GLU A		15.155	62.645	55.711	1.00 38.93
ATOM	1734	N	LYS A		19.740	62.273	51.372	1.00 39.48
MOTA	1735	CA	LYS I	224	20.983	62.809	50.871	1.00 37.65
MOTA	1736	С	LYS A	224	22.045	62.999	51.962	1.00 35.43
ATOM	1737	0	LYS A	224	23.215	62.614	51.833	1.00 35.56
ATOM	1738	CB	LYS A	224	20.645	64.109	50.115	1.00 39.12
MOTA	1739	CG	LYS A	224	21.806	64.741	49.359	1.00 73.65
ATOM	1740	CD	LYS A	224	21.391	65.942	48.513	1.00100.00
ATOM	1741	CE	LYS A	224	21.854	67.295	49.055	1.00100.00
ATOM	1742	NZ	LYS F		21.228	68.446	48.366	1.00100.00
MOTA	1743	N	GLU A		21.631	63.614	53.061	1.00 29.04
ATOM	1744	CA	GLU A		22.503	63.910	54.177	1.00 29.49
	1745	C	GLU I		23.114	62.705	54.868	1.00 38.42
ATOM			GLU I		24.074	62.857	55.612	1.00 41.35
ATOM	1746	0					55.223	1.00 32.49
MOTA	1747	CB	GLU A		21.760	64.741		
ATOM	1748	CG	GLU A		20.251	64.516	55.075	1.00 59.17
MOTA	1749	CD	GLU A		19.687	65.377	53.982	1.00 72.33
ATOM	1750	OEI			20.013	66.539	53.851	1.00 51.07
ATOM	1751	OE2			18.840	64.757	53.195	1.00 54.65
MOTA	1752	N	GLN A	226	22.575	61.511	54.647	1.00 36.99
ATOM	1753	CA	GLN A	226	23.114	60.333	55.307	1.00 33.80
MOTA	1754	C	GLN A	226	23.845	59.389	54.379	1.00 32.45
MOTA	1755	0	GLN A	226	24.549	58.487	54.812	1.00 29.61
ATOM	1756	CB	GLN A	226	21.953	59.585	55.988	1.00 33.92
MOTA	1757	CG	GLN A	226	21.625	60.145	57.379	1.00 27.50
ATOM	1758	CD	GLN A	226	21.179	61.600	57.359	1.00 47.10
ATOM	1759	OE1	GLN A	226	21.839	62.495	57.933	1.00 40.63
ATOM	1760	NE2	GLN A	226	20.042	61.842	56.717	1.00 26.24
ATOM	1761	N	VAL A	227	23.678	59.591	53.084	1.00 33.73
ATOM	1762	CA	VAL A	227	24.256	58.708	52.072	1.00 36.03
ATOM	1763	C	VAL A		25.733	58.366	52.155	1.00 38.24
ATOM	1764	0	VAL A		26.180	57.209	52.105	1.00 36.89
ATOM	1765	CB	VAL A		23.935	59.160	50.648	1.00 41.90
ATOM	1766		VAL A		25.168	58.940	49.784	1.00 41.75
ATOM	1767		VAL I		22.767	58.374	50.066	1.00 41.36
ATOM	1768	N	GLU A		26.504	59.419	52.206	1.00 29.72
	1769	CA	GLU ?		27.917	59.259	52.217	1.00 29.22
ATOM		C	GLU A		28.437	58.475	53.393	1.00 34.68
ATOM	1770					57.544	53.266	1.00 34.08
ATOM	1771	0	GLU A		29.243			1.00 34.00
MOTA	1772	CB	GLU A		28.512	60.665	52.133	
MOTA	1773	CG	GLU A		28.603	61.094	50.642	1.00 67.15
MOTA	1774	CD	GLU A			60.016	49.748	1.00100.00
MOTA	1775	0E1			30.366	59.735	49.725	1.00100.00
ATOM	1776		GLU A		28.288	59.395	49.010	1.00 93.51
MOTA	1777	N	LYS A		27.966	58.893	54.561	1.00 35.63
ATOM	1778	CA	LYS A		28.363	58.244	55.804	1.00 35.00
ATOM	1779	C	LYS A	A 229	27.866	56.794	55.838	1.00 29.64
MOTA	1780	0	LYS A	229	28.543	55.844	56.251	1.00 32.26
MOTA	1781	CB	LYS A	229	27.924	59.086	56.995	1.00 40.51
ATOM	1782	CG	LYS 2			58.551	58.355	1.00 81.35
MOTA	1783	CD	LYS A			59.623	59.293	1.00100.00
ATOM	1784	CE	LYS A		29.377	59.096	60.648	1.00100.00

MOTA	1785	NZ	LYS	A	229	30.083	60.097	61.477	1.00100.00
MOTA	1786	N	SER	Α	230	26.660	56.593	55.349	1.00 23.52
ATOM	1787	CA	SER	A	230	26.178	55.239	55.340	1.00 22.02
MOTA	1788	С	SER	Α	230	27.057	54.388	54.459	1.00 28.88
ATOM	1789	0			230	27.446	53.270	54.798	1.00 26.72
ATOM	1790	CB			230	24.794	55.259	54.768	1.00 24.16
ATOM	1791	OG			230	23.976	55.991	55.660	1.00 31.92
ATOM	1792	N			231	27.338	54.956	53.295	1.00 30.71
MOTA	1793	CA			231	28.162	54.287	52.314	1.00 31.57
ATOM	1794	C			231	29.460	53.827	52.957	1.00 35.46
ATOM	1795	ō			231	29.919	52.702	52.752	1.00 38.54
ATOM	1796	CB			231	28.363	55.167	51.087	1.00 31.57
ATOM	1797	N			232	30.052	54.699	53.773	1.00 32.67
ATOM	1798	CA			232	31.271	54.323	54.472	1.00 30.97
ATOM	1799	C			232	31.016	53.245	55.541	1.00 30.37
ATOM	1800	0			232	31.694	52.206	55.613	1.00 31.41
ATOM	1801	СВ			232	31.896	55.533	55.199	1.00 23.33
		CG			232		55.084	56.136	1.00 36.66
ATOM	1802					33.004	54.872		
ATOM	1803	CD1				34.306		55.667	1.00 38.45
ATOM	1804	CD2	TYR			32.744	54.825	57.484	1.00 38.25
ATOM	1805					35.336	54.432	56.501	1.00 38.86
ATOM	1806	CE2	TYR			33.761	54.375	58.332	1.00 40.20
ATOM	1807	CZ			232	35.054	54.174	57.844	1.00 53.86
ATOM	1808	ОН			232	36.048	53.741	58.690	1.00 61.49
MOTA	1809	N			233	30.031	53.541	56.397	1.00 25.55
ATOM	1810	CA			233	29.707	52.671	57.515	1.00 26.18
MOTA	1811	C			233	29.512	51.180	57.188	1.00 29.28
ATOM	1812	0			233	29.995	50.286	57.894	1.00 24.42
MOTA	1813	CB			233	28.552	53.249	58.378	1.00 25.67
MOTA	1814	CG			233	28.555	52.694	59.834	1.00 18.89
ATOM	1815	CD			233	29.382	53.550	60.760	1.00 26.93
ATOM	1816		GLU			29.452	54.765	60.620	1.00 27.88
ATOM	1817	OE2	GLU			30.040	52.884	61.693	1.00 24.94
ATOM	1818	N			234	28.771	50.928	56.103	1.00 24.06 /
MOTA	1819	CA			234	28.405	49.601	55.690	1.00 21.98
MOTA	1820	C			234	29.236	48.989	54.590	1.00 28.86
ATOM	1821	0			234	28.824	48.018	53.970	1.00 31.83
MOTA	1822	CB			234	26.896	49.559	55.393	1.00 24.08
ATOM	1823	CG			234	26.104	50.243	56.504	1.00 26.00
ATOM	1824		PHE			26.254	49.860	57.840	1.00 25.17
ATOM	1825		PHE			25.221	51.293	56.243	1.00 24.04
ATOM	1826		PHE			25.543	50.470	58.875	1.00 22.99
ATOM	1827		PHE			24.510	51.932	57.263	1.00 27.32
ATOM	1828	CZ			234	24.676	51.524	58.588	1.00 21.69
ATOM	1829	N			235	30.404	49.560	54.355	1.00 26.37
MOTA	1830	CA			235	31.316	49.070	53.330	1.00 23.42
MOTA	1831	C			235	31.477	47.546	53.325	1.00 29.66
ATOM	1832	0			235	31.561	46.923	52.270	1.00 28.78
MOTA	1833	CB			235	32.649	49.751	53.541	1.00 21.15
MOTA	1834	OG			235	33.483	48.977	54.386	1.00 30.93
MOTA	1835	N			236	31.514	46.917	54.506	1.00 26.42
MOTA	1836	CA			236	31.708	45.477	54.600	1.00 24.96
ATOM	1837	С			236	30.566	44.562	54.193	1.00 25.09
ATOM	1838	0			236	30.719	43.346	54.196	1.00 24.51
MOTA	1839	CB			236	32.243	45.007	55.968	1.00 27.28
ATOM	1840	CG			236	33.391	45.867	56.539	1.00 29.83
MOTA	1841	CD			236	33.396	45.909		1.00 62.44
MOTA	1842	OE1	GLU	A	236	32.410	46.157	58.739	1.00 33.13

ATOM	1843	OE2	GLU	A	236	34.574	45.665	58.572	1.00 45.68
ATOM	1844	N	THR	Α	237	29.428	45.112	53.843	1.00 20.37
ATOM	1845	CA	THR	Α	237	28.298	44.271	53.487	1.00 20.82
ATOM	1846	С	THR	Α	237	28.534	43.130	52.541	1.00 29.25
ATOM	1847		THR			28.150	42.007	52.817	1.00 32.13
ATOM	1848	CB	THR			27.137	45.128	52.989	1.00 27.71
MOTA	1849		THR			26.840	46.044	54.020	1.00 30.30
ATOM	1850	CG2	THR			25.909	44.303	52.610	1.00 21.64
ATOM	1851	N	GLU			29.126	43.411	51.399	1.00 26.94
ATOM	1852	CA	GLU			29.306	42.335	50.454	1.00 27.70
MOTA	1853	C	GLU			30.150	41.241	51.009	1.00 26.72
ATOM	1854	ō	GLU			29.896	40.077	50.782	1.00 32.69
ATOM	1855	СВ	GLU			29.844	42.795	49.088	1.00 28.58
ATOM	1856	CG	GLU			30.088	41.593	48.154	1.00 27.86
ATOM	1857	CD	GLU			28.859	40.827	47.718	1.00 21.53
ATOM	1858		GLU			27.709	41.240	47.709	1.00 31.37
ATOM	1859	OE2				29.193	39.652	47.262	1.00 28.77
ATOM	1860	n	SER			31.179	41.605	51.727	1.00 21.43
ATOM	1861	CA	SER			32.002	40.540	52.279	1.00 20.35
ATOM	1862	C	SER			31.235	39.691	53.270	1.00 27.26
ATOM		0	SER			31.524	38.499	53.482	1.00 24.57
	1863 1864	СВ	SER			33.268	41.078	52.951	1.00 28.19
ATOM		OG	SER			32.986	41.780	54.157	1.00 28.15
ATOM	1865	Ŋ	MET			30.240	40.330	53.910	1.00 26.94
ATOM	1866	CA	MET			29.432	39.610	54.898	1.00 20.31
ATOM	1867	CA	MET			28.541	38.616	54.210	1.00 20.31
ATOM	1868	0	MET			28.413	37.482	54.657	1.00 17.27
ATOM	1869	CB	MET			28.609	40.545	55.802	1.00 20.22
ATOM	1870		MET			29.543	41.286	56.744	1.00 20.22
ATOM	1871	CG	MET			28.696	42.501	57.783	1.00 21.15
ATOM	1872	SD CE				29.842	42.552	59.180	1.00 24.45
ATOM	1873	CE	MET			27.958	39.073	53.114	1.00 21.32
ATOM	1874	N CA	LEU		241	27.070	38.293	52.255	1.00 24.19
ATOM ATOM	1875 1876	C	LEU			27.822	37.062	51.812	1.00 27.53
ATOM	1877	0			241	27.328	35.950	51.882	1.00 29.31
MOTA	1878	СВ	LEU			26.656	39.080	50.991	1.00 25.13
ATOM	1879	CG	LEU			25.493	40.037	51.219	1.00 30.35
ATOM	1880		LEU			25.400	41.089	50.119	1.00 27.92
ATOM	1881		LEU			24.213	39.220	51.277	1.00 33.53
ATOM	1882	N	LYS			29.060	37.257	51.378	1.00 25.05
ATOM	1883	CA	LYS			29.822	36.095	50.972	1.00 23.44
ATOM	1884	C	LYS			30.013	35.091	52.100	1.00 24.02
ATOM	1885	ō	LYS			29.895	33.880	51.889	1.00 20.91
ATOM	1886	СВ	LYS			31.131	36.414	50.252	1.00 26.75
ATOM	1887	CG			242	30.946	36.983	48.856	1.00 34.89
ATOM	1888	CD			242	31.238	38.475	48.764	1.00 72.37
MOTA	1889	CE			242	32.118	38.849	47.572	1.00 83.37
ATOM	1890	NZ			242	31.373	39.172	46.343	1.00 63.05
MOTA	1891	N			243	30.332	35.551	53.319	1.00 21.99
ATOM	1892	CA			243	30.530	34.589	54.412	1.00 21.52
ATOM	1893	C			243	29.251	33.777	54.684	1.00 22.96
ATOM	1894	0			243	29.197	32.554	54.801	1.00 22.71
ATOM	1895	CB			243	31.058	35.328	55.644	1.00 26.02
ATOM	1896		ILE			32.372	36.021	55.261	1.00 20.02
MOTA	1897		ILE			31.313	34.376	56.803	1.00 31.33
MOTA	1898		ILE			33.036	36.860	56.363	1.00 18.00
ATOM	1899	N			243	28.166	34.528	54.762	1.00 18.00
ATOM	1900	CA			244	26.863	33.979	55.015	1.00 23.12
ALUM	1500	CA.	with	H	677	20.003	33.313	55.015	1.00 23.22

MOTA	1901	C	ALA	A	244	26.500	32.902	53.995	1.00 29.00
MOTA	1902	0	ALA			25.878	31.893	54.323	1.00 28.18
MOTA	1903	CB	ALA	A	244	25.901	35.157	55.072	1.00 21.72
MOTA	1904	N	GLU	A	245	26.892	33.104	52.731	1.00 27.16
MOTA	1905	CA	GLU	A	245	26.581	32.130	51.706	1.00 22.70
MOTA	1906	С	GLU	A	245	27.328	30.874	52.001	1.00 25.30
MOTA	1907	0	GLU	Α	245	26.844	29.762	51.887	1.00 28.85
MOTA	1908	CB	GLU	A	245	26.915	32.653	50.315	1.00 22.34
MOTA	1909	CG	GLU	A	245	25.838	33.625	49.841	1.00 26.07
MOTA	1910	CD	GLU	A	245	26.137	34.180	48.472	1.00 52.41
MOTA	1911	OE1	GLU	A	245	27.101	34.897	48.236	1.00 39.38
MOTA	1912	OE2	GLU	Α	245	25.260	33.798	47.566	1.00 37.85
MOTA	1913	N	ASP	A	246	28.540	31.079	52.445	1.00 27.12
MOTA	1914	CA	ASP	A	246	29.361	29.946	52.792	1.00 29.38
MOTA	1915	C	ASP	Α	246	28.782	29.251	53.996	1.00 27.88
MOTA	1916	0	ASP	Α	246	28.832	28.037	54.170	1.00 23.60
MOTA	1917	CB	ASP	A	246	30.857	30.287	53.015	1.00 34.30
ATOM	1918	CG	ASP	A	246	31.627	29.070	53.420	1.00 63.22
ATOM	1919	OD1	ASP	A	246	31.877	28.135	52.678	1.00 70.56
MOTA	1920	OD2	ASP	A	246	31.934	29.082	54.686	1.00 89.74
MOTA	1921	N	LEU	Α	247	28.191	30.025	54.861	1.00 22.96
MOTA	1922	CA	LEU	A	247	27.644	29.333	56.028	1.00 26.75
MOTA	1923	C	LEU	Α	247	26.274	28.715	55.782	1.00 25.45
ATOM	1924	0	LEU	Α	247	25.966	27.625	56.268	1.00 26.16
ATOM	1925	СВ	LEU	A	247	27.522	30.296	57.251	1.00 28.55
MOTA	1926	CG	LEU	Α	247	28.834	30.551	58.009	1.00 35.08
MOTA	1927	CD1	LEU	Α	247	30.008	30.474	57.061	1.00 37.19
MOTA	1928	CD2	LEU	Α	247	28.799	31.948	58.597	1.00 33.92
MOTA	1929	N	GLY	A	248	25.401	29.437	55.086	1.00 21.51
MOTA	1930	CA	GLY	A	248	24.075	28.880	54.940	1.00 22.31
ATOM	1931	C	GLY	A	248	23.729	28.415	53.550	1.00 28.05
MOTA	1932	0	GLY	Α	248	22.623	27.946	53.306	1.00 27.83
ATOM	1933	N	GLY	A	249	24.657	28.534	52.622	1.00 23.33
MOTA	1934	CA	GLY	Α	249	24.262	28.120	51.289	1.00 21.34
MOTA	1935	C	GLY	A	249	23.976	29.381	50.493	1.00 30.63
MOTA	1936	0	GLY			24.178	30.490	50.960	1.00 30.72
ATOM	1937	N	PRO			23.527	29.227	49.262	1.00 37.05
MOTA	1938	CA	PRO			23.264	30.361	48.403	1.00 37.47
MOTA	1939	C	PRO			22.230	31.367	48.883	1.00 35.89
ATOM	1940	0	PRO			21.184	31.002	49.410	1.00 32.74
ATOM	1941	CB	PRO			22.704	29.749	47.114	1.00 41.49
ATOM	1942	CG	PRO			22.260	28.330	47.442	1.00 47.11
ATOM	1943	CD	PRO			22.942	27.959	48.743	1.00 40.92
ATOM	1944	N			251	22.533	32.637	48.620	1.00 27.85
MOTA	1945	CA			251	21.660	33.756	48.887	1.00 24.11
MOTA	1946	C	TYR			20.665	33.769	47.747	1.00 30.54
MOTA	1947	0	TYR			21.068	34.022	46.622	1.00 36.51
ATOM	1948	CB	TYR			22.482	35.026	48.722	1.00 22.57
ATOM	1949	CG	TYR			21.650	36.243	48.975	1.00 24.77
MOTA	1950		TYR			21.189	36.479	50.269 47.953	1.00 28.27 1.00 23.82
ATOM	1951		TYR			21.288	37.118		
ATOM	1952		TYR			20.398	37.589	50.560	1.00 27.52 1.00 21.46
ATOM	1953	CE2	TYR			20.503	38.239	48.227	
ATOM	1954	CZ	TYR			20.069	38.471	49.533	1.00 30.19
MOTA	1955	OH			251	19.310	39.565	49.839	1.00 26.69
MOTA	1956	N	VAL			19.389	33.528	47.996	1.00 21.77
ATOM	1957	CA	VAL			18.419	33.432	46.922	1.00 22.73
MOTA	1958	С	VAL	A	252	17.553	34.632	46.586	1.00 30.33

ATOM	1959	0	VAL	А	252	16.701	34.572	45.683	1.00	31.28
MOTA	1960	CB	VAL			17.477	32.314	47.337		28.37
ATOM	1961	CG1	VAL			18.252	31.009	47.541		27.04
ATOM	1962	CG2	VAL			16.639	32.723	48.572		29.19
MOTA	1963	N	TRP			17.733	35.711	47.324		24.23
ATOM	1964	CA	TRP			16.883	36.868	47.152		22.27
ATOM	1965	C	TRP			17.300	37.793	46.041		27.00
ATOM	1966	0	TRP	A	253	16.557	38.683	45.646	1.00	27.03
MOTA	1967	CB	TRP	A	253	16.782	37.617	48.482	1.00	20.01
ATOM	1968	CG	TRP	Α	253	16.465	36.613	49.516	1.00	20.82
ATOM	1969	CD1	TRP	Α	253	17.322	35.799	50.186	1.00	23.01
ATOM	1970	CD2	TRP	Α	253	15.137	36.270	49.921	1.00	20.48
ATOM	1971	NE1	TRP	Α	253	16.601	34.977	51.043	1.00	23.74
ATOM	1972	CE2	TRP	A	253	15.254	35.266	50.904	1.00	24.56
MOTA	1973	CE3	TRP	A	253	13.882	36.771	49.588	1.00	22.14
ATOM	1974	CZ2	TRP			14.109	34.730	51.517	1.00	23.35
ATOM	1975	CZ3	TRP			12.768	36.257	50.222		23.92
ATOM	1976	CH2	TRP			12.874	35.239	51.177		23.31
ATOM	1977	N	GLY			18.501	37.611	45.545		27.81
ATOM	1978	CA	GLY			18.892	38.465	44.452		28.22
ATOM	1979	C	GLY			19.621	39.697	44.909		35.44
ATOM	1980	0	GLY			20.847	39.714	44.874		43.76
ATOM	1981	N	GLN			18.881	40.732	45.300		27.98
			GLN							
MOTA	1982	CA				19.534	41.960	45.744		27.20
ATOM	1983	C	GLN			19.640	42.000	47.258		29.51
ATOM	1984	0	GLN .			18.806	41.408	47.954		28.12
MOTA	1985	CB	GLN			18.662	43.159	45.345		28.02
ATOM	1986	CG	GLN			19.350	44.520	45.558		45.41
ATOM	1987	CD	GLN .			20.484	44.770	44.589		58.13
MOTA	1988		GLN			20.911	43.848	43.877		52.27
ATOM	1989	NE2	GLN .			20.982	46.004	44.575		30.88
ATOM	1990	N	TYR			20.653	42.704	47.744		27.70
ATOM	1991	CA	TYR			20.809	42.901	49.172		26.42
MOTA	1992	C	TYR .			20.972	44.378	49.406		21.82
MOTA	1993	0	TYR			22.075	44.858	49.525		23.87
MOTA	1994	CB	TYR			21.869	42.093	49.955		27.12
ATOM	1995	CG	TYR .			21.726	42.369	51.460		21.81
ATOM	1996		TYR .			20.740	41.730	52.215		20.63
ATOM	1997	CD2	TYR .			22.547	43.282	52.130		21.46
ATOM	1998	CE1	TYR .			20.573	42.001	53.579		17.95
ATOM	1999		TYR			22.405	43.573	53.490		21.50
ATOM	2000	CZ	TYR .			21.412	42.913	54.223		32.29
ATOM	2001	OH	TYR .			21.239	43.150	55.580		22.78
ATOM	2002	N	ASP .			19.880	45.109	49.398		19.68
ATOM	2003	CA	ASP .			20.005	46.529	49.608		21.07
MOTA	2004	C	ASP .			19.808	46.875	51.089		31.39
ATOM	2005	0	ASP .			19.263	46.079	51.872		27.96
ATOM	2006	CB	ASP .			19.010	47.346	48.760		19.02
ATOM	2007	CG	ASP .			19.455	47.592	47.327		28.98
ATOM	2008		ASP .			20.490	47.136	46.840		23.83
MOTA	2009		ASP .			18.582	48.312	46.645		28.76
ATOM	2010	N	LEU .			20.251	48.099	51.423		27.55
MOTA	2011	CA	LEU .			20.145	48.669	52.746		24.78
MOTA	2012	C	LEU .			19.434	50.003	52.680		30.32
ATOM	2013	0	LEU .			19.615	50.784	51.732		31.77
MOTA	2014	CB	LEU .			21.511	48.889	53.440		23.08
ATOM	2015	CG	LEU .			22.225	47.626	53.916		24.93
ATOM	2016	CD1	LEU .	A	258	23.687	47.922	54.245	1.00	21.22

ATOM	2017	CD2	LEU	Δ	258	21.538	47.060	55.152	1.00 21.84
ATOM	2018	N	PEA :			18.644	50.245	53.726	1.00 23.21
ATOM	2019	CA	LEU			17.936	51.484	53.915	1.00 21.37
								55.330	1.00 27.59
MOTA	2020	C	LEU			18.185	52.045		
MOTA	2021	0	LEU .			17.771	51.432	56.319	1.00 26.86
MOTA	2022	CB	LEU :			16.433	51.307	53.702	1.00 18.80
ATOM	2023	CG	LEU .			15.667	52.543	54.132	1.00 19.47
MOTA	2024	CD1	LEU .	A	259	15.857	53.670	53.128	1.00 21.23
ATOM	2025	CD2	LEU .	A	259	14.192	52.205	54.204	1.00 18.79
ATOM	2026	N	VAL .	A	260	18.847	53.205	55.408	1.00 21.57
MOTA	2027	CA	VAL .	A	260	19.111	53.903	56.648	1.00 21.30
ATOM	2028	С	VAL	A	260	17.968	54.863	56.866	1.00 30.36
MOTA	2029	0	VAL .	A	260	17.833	55.881	56.181	1.00 31.96
MOTA	2030	СВ	VAL .			20.403	54.663	56.563	1.00 24.67
ATOM	2031	CG1				20.789	55.226	57.929	1.00 22.98
ATOM	2032	CG2	VAL .			21.446	53.677	56.074	1.00 26.02
ATOM	2033	N	LEU			17.116	54.507	57.818	1.00 23.24
ATOM	2034	CA	LEU .			15.930	55.273	58.105	1.00 19.43
							56.472	58.971	1.00 13.43
ATOM	2035	C	LEU .			16.171			
MOTA	2036	0	LEU .			17.278	56.708	59.443	1.00 25.06
MOTA	2037	CB	LEU .			14.943	54.367	58.842	1.00 19.66
MOTA	2038	CG	LEU .		<del>-</del>	14.286	53.442	57.827	1.00 28.61
MOTA	2039		LEU .			14.992	52.089	57.734	1.00 28.87
ATOM	2040	CD2	LEU .	A	261	12.786	53.354	58.044	1.00 37.75
MOTA	2041	N	PRO .	A	262	15.087	57.203	59.170	1.00 25.75
ATOM	2042	CA	PRO .	A	262	15.137	58.343	60.051	1.00 27.87
MOTA	2043	C	PRO .	Α	262	15.219	57.793	61.487	1.00 29.99
MOTA	2044	0	PRO .	A	262	14.875	56.636	61.792	1.00 25.40
ATOM	2045	CB	PRO .	Α	262	13.872	59.168	59.811	1.00 28.11
MOTA	2046	CG	PRO	Α	262	13.039	58.416	58.792	1.00 29.99
ATOM	2047	CD	PRO .	A	262	13.722	57.078	58.569	1.00 24.33
ATOM	2048	N	PRO .	A	263	15.704	58.649	62.378	1.00 27.92
MOTA	2049	CA	PRO	Α	263	15.950	58.306	63.776	1.00 22.66
ATOM	2050	С	PRO			14.891	57.588	64.585	1.00 21.89
MOTA	2051	0	PRO			15.234	56.802	65.462	1.00 22.12
ATOM	2052	CB	PRO			16.552	59.545	64.448	1.00 23.50
ATOM	2053	CG	PRO .			16.866	60.527	63.325	1.00 29.26
ATOM	2054	CD	PRO			16.003	60.104	62.142	1.00 26.83
ATOM	2055	N	SER			13.621	57.862	64.315	1.00 21.95
ATOM	2056	CA	SER			12.531	57.219	65.037	1.00 21.99
ATOM	2057	C	SER			12.344	55.765	64.610	1.00 16.88
	2057	0	SER		•	11.457		65.134	
MOTA		-							
ATOM	2059	CB	SER			11.206		64.947 63.564	1.00 26.27 1.00 26.00
MOTA	2060	OG	SER			10.928	58.148		
MOTA	2061	N	PHE			13.154		63.675	1.00 17.99
MOTA	2062	CA	PHE			12.949		63.372	1.00 18.59
MOTA	2063	C	PHE			13.104	53.056	64.707	1.00 21.28
MOTA	2064	0	PHB			14.080		65.453	1.00 17.40
MOTA	2065	CB	PHE			13.961		62.300	1.00 19.34
MOTA	2066	CG	PHE	A	265	13.738		61.907	1.00 22.24
MOTA	2067	CD1	PHE	Α	265	12.492	51.545	61.432	1.00 20.61
MOTA	2068	CD2	PHE	A	265	14.769	51.016	62.003	1.00 24.16
MOTA	2069	CE1	PHE	A	265	12.264	50.221	61.061	1.00 21.03
MOTA	2070	CE2	PHE	A	265	14.572	49.687	61.620	1.00 23.73
ATOM	2071	CZ	PHE			13.311	49.300	61.161	1.00 20.97
ATOM	2072	N	PRO			12.126		65.075	1.00 16.27
ATOM	2073	CA	PRO			12.147		66.343	1.00 15.83
ATOM	2074	C	PRO			13.168	50.441	66.590	1.00 16.31
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ATOM	2075	0	PRO	A	266	13.354	50.045	67.733	1.00 12.99
ATOM	2076	CB	PRO	Α	266	10.744	50.987	66.520	1.00 15.93
MOTA	2077	CG	PRO	Α	266	10.017	51.164	65.205	1.00 18.48
ATOM	2078	CD	PRO	Δ	266	10.879	52.008	64.308	1.00 14.04
									1.00 16.40
MOTA	2079	N			267	13.785	49.894	65.537	
MOTA	2080	CA			267	14.752	48.813	65.694	1.00 15.75
MOTA	2081	C	TYR	A	267	16.131	49.180	65.197	1.00 19.44
ATOM	2082	0	TYR	Α	267	16.342	50.176	64.499	1.00 18.10
ATOM	2083	CB	TYR	Α	267	14.269	47.507	65.006	1.00 17.45
ATOM	2084	CG			267	12.954	47.043	65.626	1.00 19.30
									1.00 19.19
MOTA	2085	CD1				12.992	46.238	66.766	
MOTA	2086	CD2			267	11.705	47.435	65.127	1.00 14.85
MOTA	2087	CE1	TYR	A	267	11.806	45.817	67.369	1.00 21.05
MOTA	2088	CE2	TYR	Α	267	10.512	47.032	65.734	1.00 9.78
ATOM	2089	CZ	TYR	Α	267	10.563	46.208	66.861	1.00 13.87
MOTA	2090	OH	TYR	Α	267	9.427	45.791	67.529	1.00 15.56
MOTA	2091	N	GLY	А	268	17.091	48.353	65.583	1.00 14.17
ATOM	2092	CA			268	18.460	48.522	65.122	1.00 15.06
		C			268	18.508		63.652	1.00 19.31
MOTA	2093						48.085		
MOTA	2094	0			268	19.152	48.695	62.809	1.00 17.05
ATOM	2095	N	GLY	A	269	17.773	47.011	63.360	1.00 18.06
ATOM	2096	CA	GLY	Α	269	17.688	46.453	62.026	1.00 15.91
MOTA	2097	C	GLY	Α	269	16.438	45.598	61.892	1.00 16.11
MOTA	2098	0	GLY	Α	269	15.869	45.183	62.891	1.00 14.41
ATOM	2099	N	MET	Α	270	16.031	45.376	60.637	1.00 13.94
ATOM	2100	CA			270	14.868	44.605	60.233	1.00 13.83
ATOM	2101	C	MET			15.162	43.978	58.874	1.00 21.59
								57.890	
ATOM	2102	0			270	15.310	44.700		1.00 18.65
ATOM	2103	CB			270	13.590	45.444	60.058	1.00 16.36
MOTA	2104	CG	MET	A	270	12.450	44.562	59.571	1.00 17.70
MOTA	2105	SD	MET	Α	270	11.946	43.379	60.866	1.00 21.03
MOTA	2106	CE	MET	Α	270	11.379	41.967	59.867	1.00 19.69
ATOM	2107	N	GLU	Α	271	15.249	42.647	58.85 <i>9</i>	1.00 22.89
ATOM	2108	CA	GLU	A	271	15.571	41.810	57.700	1.00 18.36
ATOM	2109	C	GLU	Α	271	14.546	41.835	56.562	1.00 20.73
ATOM	2110	ō			271	14.238	40.794	55.994	1.00 17.43
ATOM	2111	CB			271	15.852	40.352	58.174	1.00 17.49
	2112	CG	GLU			14.595	39.641	58.706	1.00 14.64
ATOM	2113	CD			271	14.297	39.896	60.175	1.00 16.61
ATOM	2114	OE1	GLU			14.592	40.925	60.774	1.00 16.52
MOTA	2115	OE2	GLU	Α	271	13.660	38.891	60.720	1.00 15.49
MOTA	2116	N	ASN	Α	272	13.985	42.991	56.218	1.00 16.76
MOTA	2117	CA	ASN	Α	272	13.022	42.971	55.122	1.00 19.27
ATOM	2118	C	ASN			13.741	42.476	53.880	1.00 17.37
ATOM	2119	0	ASN			14.781	43.005	53.535	1.00 18.02
ATOM	2120	CB	ASN			12.360	44.340	54.873	1.00 21.66
					272			56.126	
MOTA	2121	CG				11.711	44.929		1.00 17.62
MOTA	2122		ASN			12.045	46.057	56.536	1.00 30.09
MOTA	2123		ASN			10.846	44.154	56.773	1.00 14.05
MOTA	2124	N	PRO	Α	273	13.202	41.457	53.238	1.00 16.45
MOTA	2125	CA	PRO	A	273	13.855	40.842	52.070	1.00 18.72
ATOM	2126	C	PRO	A	273	14.199	41.795	50.934	1.00 25.09
ATOM	2127	0			273	13.350	42.525	50.420	1.00 25.34
MOTA	2128	СВ			273	12.985	39.662	51.608	1.00 17.23
ATOM	2129	CG	PRO			11.682	39.824	52.370	1.00 17.23
MOTA	2130	CD	PRO			11.839	40.918	53.426	1.00 14.09
MOTA	2131	N	CYS			15.475	41.766	50.548	1.00 22.07
ATOM	2132	CA	CYS	A	274	16.006	42.590	49.475	1.00 25.86

ATOM	2133	C	CYS .	A	274	16.258	44.014	49.898	1.00 27.30
ATOM	2134	0	CYS .			16.910	44.743	49.142	1.00 25.31
ATOM	2135	СВ	CYS .			15.096	42.678	48.220	1.00 28.73
ATOM	2136	SG	CYS .			14.579	41.105	47.493	1.00 31.75
ATOM	2137	N	LEU			15.729	44.378	51.073	1.00 22.65
	2138		LEU .			15.850	45.744	51.607	1.00 23.25
ATOM		CA							
ATOM	2139	C	LEU .			15.861	45.771	53.127	1.00 24.49
MOTA	2140	0	LEU .			14.857	46.049	53.766	1.00 20.30
MOTA	2141	CB	LEU .			14.720	46.664	51.076	1.00 21.69
MOTA	2142	CG	LEU .			14.883	48.179	51.233	1.00 23.67
MOTA	2143	CD1	LEU .	A	275	16.161	48.676	50.567	1.00 21.04
ATOM	2144	CD2	LEU .	Α	275	13.678	48.860	50.598	1.00 24.01
MOTA	2145	N	THR	A	276	17.019	45.459	53.693	1.00 23.64
ATOM	2146	CA	THR .	Α	276	17.168	45.522	55.142	1.00 23.40
ATOM	2147	C	THR	A	276	17.072	46.994	55.594	1.00 24.89
MOTA	2148	0	THR .			17.685	47.911	55.035	1.00 21.17
ATOM	2149	СВ	THR			18.493	44.855	55.596	1.00 27.90
MOTA	2150	OG1	THR			18.355	43.451	55.661	1.00 27.28
ATOM	2151	CG2	THR			19.029	45.362	56.936	1.00 23.58
		N					47.234	56.612	1.00 22.02
MOTA	2152		PHE .			16.247			
ATOM	2153	CA	PHE .			16.088	48.573	57.195	1.00 20.16
MOTA	2154	C	PHE .			17.044	48.709	58.384	1.00 25.70
ATOM	2155	0	PHE			17.162	47.764	59.167	1.00 21.88
ATOM	2156	CB	PHE			14.694	48.687	57.829	1.00 18.17
ATOM	2157	CG	PHE .			13.634	48.938	56.817	1.00 19.00
MOTA	2158	CD1	PHE	A	277	13.835	48.531	55.500	1.00 24.17
MOTA	2159	CD2	PHE	A	277	12.427	49.542	57.152	1.00 20.88
ATOM	2160	CE1	PHE	A	277	12.862	48.745	54.525	1.00 23.52
MOTA	2161	CE2	PHE	A	277	11.446	49.770	56.185	1.00 26.94
ATOM	2162	CZ	PHE .	Α	277	11.659	49.364	54.865	1.00 22.89
MOTA	2163	N	JAV	A	278	17.713	49.843	58.572	1.00 20.87
MOTA	2164	CA	VAL	Α	278	18.595	49.962	59.732	1.00 19.42
ATOM	2165	C	VAL	Α	278	18.432	51.321	60.375	1.00 23.68
ATOM	2166	0	VAL	Α	278	18.086	52.292	59.711	1.00 19.82
ATOM	2167	CB	VAL	Α	278	20.094	49.721	59.491	1.00 18.82
ATOM	2168	CG1	VAL	Α	278	20.320	48.314	59.001	1.00 19.20
ATOM	2169	CG2	VAL	A	278	20.715	50.743	58.521	1.00 15.74
ATOM	2170	N	THR			18.751	51.374	61.655	1.00 18.56
ATOM	2171	CA	THR			18.702	52.616	62.391	1.00 18.24
ATOM	2172	C	THR			19.889	53.506	61.996	1.00 19.64
ATOM	2173	ō	THR			20.971	53.008	61.740	1.00 19.05
MOTA	2174	CB	THR			18.821	52.343	63.921	1.00 19.60
ATOM	2175		THR			18.895	53.595	64.581	1.00 16.90
ATOM	2175		THR			20.120	51.588	64.205	1.00 13.57
			PRO .					61.999	1.00 19.21
ATOM	2177	N				19.719	54.836	61.712	
ATOM	2178	CA	PRO			20.829	55.707		1.00 18.61
ATOM	2179	C	PRO			21.772	55.699	62.912	1.00 21.55
ATOM	2180	0	PRO			22.918	56.168	62.799	1.00 21.21
ATOM	2181	CB	PRO			20.267	57.113	61.511	1.00 19.88
ATOM	2182	CG	PRO			18.901	57.068	62.176	1.00 18.63
ATOM	2183	CD	PRO	A	280	18.448	55.624	62.007	1.00 17.87
ATOM	2184	N	THR	A	281	21.303	55.127	64.044	1.00 20.04
MOTA	2185	CA	THR	A	281	22.174	55.031	65.214	1.00 21.24
ATOM	2186	C	THR	A	281	23.367	54.097	65.002	1.00 22.67
ATOM	2187	0	THR	A	281	24.300	54.031	65.829	1.00 20.18
ATOM	2188	CB	THR			21.477	54.765	66.547	1.00 24.13
ATOM	2189		THR			20.923	53.454	66.562	1.00 21.04
ATOM	2190		THR			20.438	55.869	66.750	1.00 20.84
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ATOM	2191	N	T.ETT	Δ	282	23.342	53.397	63.867	1.00 16.05
ATOM	2192	CA			282	24.460	52.528	63.556	1.00 16.95
MOTA	2193	C			282	25.644	53.343	63.000	1.00 23.24
MOTA	2194	0	LEU	A	282	26.768	52.846	62.861	1.00 21.40
MOTA	2195	CB	LEU	A	282	24.087	51.519	62.454	1.00 16.65
MOTA	2196	CG	LEU	A	282	23.053	50.463	62.813	1.00 20.67
ATOM	2197	CD1	LEU	Α	282	23.121	49.359	61.760	1.00 17.37
ATOM	2198		LEU			23.359	49.877	64.193	1.00 11.35
ATOM	2199	N			283	25.410	54.598	62.615	1.00 19.06
					283		55.379	61.979	1.00 21.46
ATOM	2200	CA				26.474			
MOTA	2201	C			283	27.530	55.898	62.926	1.00 29.82
ATOM	2202	0			283	27.608	57.107	63.129	1.00 30.36
MOTA	2203	CB	LEU	Α	283	25.861	56.561	61.208	1.00 20.36
MOTA	2204	CG	LEU	A	283	24.829	56.070	60.198	1.00 26.22
ATOM	2205	CD1	LEU	Α	283	24.170	57.268	59.509	1.00 26.75
ATOM	2206	CD2	LEU	Α	283	25.542	55.174	59.178	1.00 28.22
ATOM	2207	N			284	28.307	54.983	63.499	1.00 24.27
MOTA	2208	CA			284	29.299	55.346	64.481	1.00 23.44
	2209	C			284	30.519	55.998	63.865	1.00 30.13
ATOM									
MOTA	2210	0			284	31.280	56.659	64.566	1.00 28.42
MOTA	2211	CB			284	29.683	54.147	65.325	1.00 23.18
MOTA	2212	N			285	30.706	55.829	62.561	1.00 26.03
ATOM	2213	CA	GLY	Α	285	31.852	56.425	61.898	1.00 23.94
MOTA	2214	С	GLY	A	285	33.106	55.548	61.857	1.00 35.38
MOTA	2215	0	GLY	Α	285	34.152	55.934	61.321	1.00 35.31
ATOM	2216	N	ASP	Α	286	33.010	54.339	62.409	1.00 29.64
ATOM	2217	CA	ASP	A	286	34.121	53.427	62.408	1.00 22.48
ATOM	2218	C			286	33.702	52.013	62.065	1.00 22.54
ATOM	2219	ō	ASP			34.484	51.120	62.321	1.00 20.43
ATOM	2220	СВ			286	34.798	53.422	63.776	1.00 22.77
ATOM	2221	CG			286	33.830	53.000	64.842	1.00 23.72
	2222		ASP			32.727	52.571	64.605	1.00 23.69
ATOM									
ATOM	2223		ASP			34.303	53.119	66.039	1.00 25.35
ATOM	2224	N			287	32.483	51.824	61.557	1.00 18.47
ATOM	2225	CA			287	31.998	50.498	61.175	1.00 19.69
MOTA	2226	C	LYS	A	287	31.839	49.507	62.330	1.00 23.72
MOTA	2227	0	LYS	Α	287	31.524	48.328	62.143	1.00 23.33
MOTA	2228	CB	LYS	Α	287	32.928	49.860	60.138	1.00 23.38
MOTA	2229	CG	LYS	Α	287	33.393	50.760	58.992	1.00 28.89
ATOM	2230	CD	LYS	A	287	34.194	49.994	57.933	1.00 29.02
MOTA	2231	CE	LYS	Α	287	35.016	50.878	56.992	1.00 29.20
MOTA	2232	NZ	LYS	Α	287	34.225	51.494	55.908	1.00 31.15
ATOM	2233	N			288	32.090	49.993	63.537	1.00 23.67
ATOM	2234	CA			288		49.195	64.756	1.00 21.48
ATOM	2235	C	SER			30.681	48.520	65.080	1.00 24.82
ATOM	2236	0	SER			30.644	47.530	65.833	1.00 23.30
ATOM	2237	CB			288	32.568	50.021	65.915	1.00 17.62
ATOM	2238	OG			288	31.613	50.986	66.283	1.00 22.51
ATOM	2239	N			289		49.068	64.546	1.00 17.98
MOTA	2240	CA	LEU	A	289	28.235	48.524	64.763	1.00 17.52
MOTA	2241	C	LEU	A	289	27.719	47.621	63.632	1.00 25.16
MOTA	2242	0	LEU	A	289	26.526	47.300	63.525	1.00 22.82
ATOM	2243	CB			289	27.236	49.616	65.156	1.00 15.28
ATOM	2244	CG			289		50.434	66.350	1.00 20.44
ATOM	2245		LEU			26.607	51.363	66.782	1.00 18.76
			LEU					67.549	1.00 14.67
ATOM	2246					28.151	49.556		
ATOM	2247	N			290		47.173	62.784	1.00 20.51
ATOM	2248	CA	SER	A	290	28.298	46.332	61.655	1.00 22.41

MOTA	2249	С	SER	Α	290	27.734	44.950	62.011	1.00 24.28
ATOM	2250	0	SER	A	290	27.186	44.251	61.157	1.00 24.24
ATOM	2251	CB	SER .	Α	290	29.457	46.263	60.676	1.00 22.09
ATOM	2252	OG	SER	Α	290	30.484	45.473	61.248	1.00 25.07
ATOM	2253	N	ASN .			27.873	44.530	63.261	1.00 19.37
ATOM	2254	CA	ASN			27.317	43.249	63.591	1.00 18.43
ATOM	2255	С	ASN			25.826	43.236	63.256	1.00 17.33
ATOM	2256	ō	ASN			25.265	42.192	62.964	1.00 14.56
MOTA	2257	СВ	ASN			27.513	42.937	65.085	1.00 19.46
ATOM	2258	CG	ASN			26.602	43.764	65.973	1.00 20.66
ATOM	2259	OD1				26.798	44.984	66.108	1.00 17.05
ATOM	2260		ASN			25.549	43.128	66.515	1.00 16.48
ATOM	2261	N	VAL			25.177	44.399	63.318	1.00 14.47
ATOM	2262	CA	VAL			23.743	44.469	63.064	1.00 13.82
ATOM	2263	C	VAL			23.510	44.099	61.629	1.00 21.19
ATOM	2264	0	VAL			22.525	43.437		1.00 19.13
ATOM	2265	CB	VAL			23.176	45.855	63.358	1.00 16.20
ATOM	2266		VAL			21.717	45.989	62.910	1.00 13.99
	2267		VAL			23.375	46.193	64.832	1.00 14.21
ATOM			ILE			24.478	44.519	60.820	1.00 14.21
ATOM	2268	N						59.388	1.00 18.72
ATOM	2269	CA	ILE			24.388	44.196		1.00 17.33
ATOM	2270	C	ILE			24.537 23.706	42.686	59.190 58.535	1.00 18.12
ATOM	2271	0	ILE				42.048		1.00 20.88
ATOM	2272	CB				25.347	45.002	58.504 58.732	1.00 21.30
ATOM	2273	CG1	ILE			25.212	46.508		1.00 22.34
ATOM	2274	CG2				25.106	44.651	57.036	1.00 24.31
MOTA	2275	CD1				23.875	47.084 42.108	58.267 59.809	1.00 17.23
ATOM	2276	N	ALA			25.577		59.744	1.00 14.70
ATOM	2277	CA	ALA			25.798	40.674	60.144	1.00 19.80
ATOM	2278	C	ALA			24.525	39.915	59.613	1.00 19.50
MOTA	2279	O	ALA ALA			24.134 26.963	38.879 40.320	60.692	1.00 19.31
ATOM	2280	CB	HIS				40.467	61.141	1.00 19.87
MOTA	2281	N CA	HIS			23.858 22.684	39.855	61.718	1.00 17.44
MOTA	2282	C	HIS			21.564	39.788	60.725	1.00 17.44
ATOM	2283	0	HIS			21.046	38.695	60.487	1.00 15.82
MOTA	2284	СВ	HIS			22.243	40.560	63.038	1.00 16.85
ATOM	2285	CG	HIS			20.982	40.016	63.661	1.00 14.90
ATOM	2286 2287		HIS			21.029	39.160	64.771	1.00 13.18
ATOM ATOM	2288		HIS			19.681	40.220	63.307	1.00 13.10
ATOM	2289		HIS			19.763	38.841	65.046	1.00 12.25
ATOM	2290		HIS			18.926	39.479		1.00 13.88
	2291	N	GLU			21.201	40.970	60.217	1.00 15.43
MOTA MOTA	2291	CA	GLU			20.097		59.253	1.00 16.75
	2292	C	GLU			20.374	40.223	58.006	1.00 19.55
MOTA MOTA	2293	0	GLU		•	19.470		57.471	1.00 19.03
ATOM	2295	СВ	GLU			19.579		58.926	1.00 18.78
		CG	GLU			19.319		60.187	1.00 15.45
ATOM	2296	CD	GLU			18.430		61.258	1.00 15.43
ATOM	2297		GLU			17.607		61.256	1.00 18.99
ATOM	2298		GLU			18.590		62.423	1.00 16.74
ATOM	2299							57.561	1.00 16.74
ATOM	2300	N	ILE			21.622		56.420	1.00 14.89
ATOM	2301	CA	ILE			22.017	39.411	56.420	1.00 15.42
ATOM	2302	C				21.689	37.950		
ATOM	2303	O	ILE			21.127	37.216	55.852	1.00 20.13 1.00 17.39
MOTA	2304	CB CC1	ILE			23.518		56.229	
ATOM	2305		ILE			23.800		55.435	1.00 15.89
MOTA	2306	CG2	ILE	A	271	23.998	38.252	55.482	1.00 18.34

MOTA	2307	CD1	ILE	Α	297	25.286	41.106	55.363	1.00 18.27
MOTA	2308	N	SER	Α	298	22.043	37.525	57.903	1.00 19.20
ATOM	2309	CA	SER	Α	298	21.828	36.138	58.327	1.00 18.22
MOTA	2310	C	SER	Α	298	20.386	35.663	58.269	1.00 17.45
ATOM	2311	0	SER	А	298	20.138	34.479	58.073	1.00 18.23
ATOM	2312	СВ			298	22.415	35.795	59.687	1.00 19.89
ATOM	2313	OG			298	23.812	35.938	59.627	1.00 20.48
ATOM	2314	N			299	19.458	36.589	58.479	1.00 14.42
ATOM	2315	CA			299	18.038	36.284	58.435	1.00 14.65
ATOM	2316	С	HIS			17.620	35.833	57.031	1.00 19.81
MOTA	2317	0	HIS	A	299	16.610	35.136	56.857	1.00 22.28
ATOM	2318	CB	HIS	Α	299	17.235	37.515	58.891	1.00 16.87
ATOM	2319	CG	HIS	А	299	16.952	37.582	60.387	1.00 18.36
ATOM	2320	ND1	HIS	Α	299	16.386	36.512	61.090	1.00 15.19
ATOM	2321	CD2	HIS	A	299	17.138	38.601	61.282	1.00 14.09
ATOM	2322		HIS			16.235	36.894	62.356	1.00 13.44
ATOM	2323		HIS			16.671	38.129	62.478	1.00 13.61
		N			300		36.216	56.025	1.00 16.24
ATOM	2324					18.416			
ATOM	2325	CA			300	18.121	35.813	54.635	1.00 18.63
MOTA	2326	С			300	18.061	34.297	54.485	1.00 22.35
MOTA	2327	0			300	17.696	33.798	53.426	1.00 20.36
MOTA	2328	CB	SER	A	300	19.092	36.353	53.595	1.00 18.87
MOTA	2329	OG	SER	Α	300	19.383	37.715	53.804	1.00 19.75
MOTA	2330	N	TRP	A	301	18.469	33.616	55.557	1.00 19.18
MOTA	2331	CA	TRP	Α	301	18.431	32.189	55.676	1.00 21.61
MOTA	2332	C	TRP	Α	301	17.572	31.826	56.889	1.00 23.56
ATOM	2333	0	TRP	A	301	16.478	31.271	56.777	1.00 23.82
ATOM	2334	CB	TRP	Α	301	19.815	31.539	55.793	1.00 23.04
ATOM	2335	CG			301	20.658	31.686	54.552	1.00 25.35
ATOM	2336	CD1	TRP			20.855	30.728	53.601	1.00 27.96
ATOM	2337	CD2	TRP			21.462	32.798	54.143	1.00 23.60
		NE1	TRP						1.00 23.97
ATOM	2338					21.694	31.178	52.618	
ATOM	2339	CE2	TRP			22.097	32.432	52.915	1.00 23.82
ATOM	2340	CE3	TRP			21.688	34.053	54.689	1.00 22.79
MOTA	2341	CZ2	TRP			22.939	33.272	52.216	1.00 22.46
MOTA	2342	CZ3	TRP			22.534	34.892	54.000	1.00 24.82
MOTA	2343	CH2	TRP			23.153	34.502	52.796	1.00 26.57
MOTA	2344	N	THR	Α	302	18.080	32.149	58.074	1.00 19.87
MOTA	2345	CA	THR	A	302	17.358	31.822	59.285	1.00 20.49
ATOM	2346	C	THR	A	302	16.294	32.866	59.616	1.00 20.03
ATOM	2347	0	THR	A	302	16.577	33.805	60.340	1.00 20.36
ATOM	2348	CB	THR	A	302	18.309	31.537	60.479	1.00 15.81
ATOM	2349	0G1	THR	A	302	19.251	32.581	60.555	1.00 17.11
ATOM	2350		THR			19.047	30.205	60.307	1.00 17.75
ATOM	2351	N	GLY			15.080	32.699	59.111	1.00 15.84
ATOM	2352	CA	GLY			14.020	33.646	59.409	1.00 13.98
MOTA		C	GLY			13.222	33.854	58.145	1.00 16.87
	2353								
MOTA	2354	0	GLY			12.009	33.604	58.075	1.00 18.37
MOTA	2355	N	ASN			13.944	34.287	57.138	1.00 15.59
MOTA	2356	CA	ASN			13.332	34.542	55.846	1.00 15.84
MOTA	2357	С	ASN			13.151	33.277	55.002	1.00 23.11
MOTA	2358	0	asn			12.133	33.172	54.319	1.00 20.28
ATOM	2359	CB	ASN			14.075	35.643	55.069	1.00 14.22
ATOM	2360	CG	ASN			14.069	36.963	55.803	1.00 28.04
ATOM	2361	OD1	asn			13.522	37.030	56.927	1.00 21.54
ATOM	2362		ASN			14.660	37.988	55.159	1.00 15.69
ATOM	2363	N	LEU			14.106	32.310	55.061	1.00 22.32
ATOM	2364	CA	LEU			13.970	31.036	54.310	1.00 21.16
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ATOM	2365	C	LEU .	A	305	13.179	29.990	55.107	1.00 24.14
MOTA	2366	0	LEU .	A	305	12.183	29.414	54.657	1.00 20.26
MOTA	2367	CB	LEU .	A	305	15.312	30.421	53.877	1.00 20.64
ATOM	2368	CG	LEU .	Α	305	15.667	30.763	52.443	1.00 25.36
ATOM	2369	CD1	LEU .	A	305	17.031	30.163	52.135	1.00 21.74
ATOM	2370	CD2	LEU .	A	305	14.601	30.274	51.458	1.00 29.52
ATOM	2371	N	VAL .	Α	306	13.690	29.750	56.320	1.00 22.11
ATOM	2372	CA	VAL .	Α	306	13.087	28.894	57.326	1.00 22.78
ATOM	2373	C	VAL .			12.593	29.863	58.387	1.00 20.95
ATOM	2374	0	VAL			13.360	30.606	59.023	1.00 17.13
ATOM	2375	CB	VAL			13.972	27.779	57.846	1.00 26.88
ATOM	2376		VAL			15.369	28.300	58.012	1.00 30.17
ATOM	2377	CG2	VAL			13.470	27.219	59.162	1.00 24.85
ATOM	2378	N	THR			11.268	29.875	58.487	1.00 24.03
	2379	CA	THR			10.533	30.800	59.346	1.00 13.71
MOTA		CA					30.800	60.539	1.00 16.22
ATOM	2380		THR			9.839			
ATOM	2381	0	THR .			9.262	29.105	60.437	1.00 12.74
ATOM	2382	CB	THR .			9.463	31.476	58.441	1.00 21.45
ATOM	2383	0G1				10.078	31.965	57.280	1.00 17.92
MOTA	2384	CG2	THR			8.739	32.628	59.134	1.00 11.03
ATOM	2385	N	ASN .			9.840	30.870	61.679	1.00 13.09
ATOM	2386	CA	ASN .			9.111	30.345	62.816	1.00 14.06
ATOM	2387	C	ASN			7.633	30.248	62.421	1.00 16.30
ATOM	2388	0	ASN			7.041	31.166	61.832	1.00 16.00
MOTA	2389	CB	ASN			9.277	31.223	64.092	1.00 12.92
ATOM	2390	CG	ASN			9.213	32.731	63.891	1.00 20.56
ATOM	2391		ASN			9.877	33.505	64.593	1.00 19.56
ATOM	2392	ND2	ASN			8.406	33.206	62.953	1.00 16.07
MOTA	2393	Ŋ	LYS			7.004	29.141	62.729	1.00 15.40
MOTA	2394	CA	LYS			5.600		62.366	1.00 15.11
MOTA	2395	C	LYS			4.607	29.891	63.122	1.00 19.89
MOTA	2396	0	LYS			3.540	30.305	62.651	1.00 16.39
MOTA	2397	CB	LYS			5.279	27.493	62.491	1.00 14.57
MOTA	2398	CG	LYS			3.863	27.208	62.020	1.00 19.79
ATOM	2399	CD	LYS			3.513	25.738	62.103	1.00 30.87
MOTA	2400	CE	LYS			3.169	25.135	60.754	1.00 82.87
ATOM	2401	NZ	LYS			4.126	24.100	60.326	1.00100.00
MOTA	2402	N	THR			4.930	30.182	64.367	1.00 15.49
MOTA	2403	CA	THR	A	310	4.165	31.100	65.196	1.00 14.00
ATOM	2404	C	THR .	A	310	5.196	31.851	66.038	1.00 21.33
MOTA	2405	0	THR	A	310	6.333	31.382	66.204	1.00 17.08
MOTA	2406	CB	THR	A	310	3.158	30.422	66.130	
MOTA	2407		THR .			3.843	29.888	67.272	1.00 17.70
MOTA	2408	CG2	THR	A	310	2.354	29.366	65.357	1.00 24.41
ATOM	2409	N	TRP			4.797	32.998	66.591	1.00 16.85
MOTA	2410	CA	TRP	Α	311	5.703	33.779	67.408	1.00 13.14
MOTA	2411	C	TRP			6.121	33.074	68.703	1.00 14.85
MOTA	2412	0	TRP	Α	311	7.023	33.499	69.408	1.00 16.76
MOTA	2413	CB	TRP			5.152	35.196	67.620	1.00 11.46
ATOM	2414	CG	TRP	A	311	4.878	35.825	66.301	1.00 12.77
MOTA	2415	CD1	TRP	A	311	3.661	36.134	65.773	1.00 15.35
ATOM	2416	CD2	TRP			5.867	36.192	65.320	1.00 14.76
ATOM	2417	NE1	TRP	A	311	3.809	36.710	64.528	1.00 15.45
MOTA	2418	CE2	TRP	A	311	5.167	36.734	64.217	1.00 16.76
ATOM	2419	CE3	TRP	A	311	7.265	36.090	65.283	1.00 15.71
MOTA	2420	CZ2	TRP	A	311	5.851	37.203	63.090	1.00 13.67
ATOM	2421	CZ3	TRP			7.933	36.555	64.180	1.00 16.49
MOTA	2422	CH2	TRP .	A	311	7.230	37.101	63.091	1.00 17.12

ATOM	2423	N	ASP	Α	312	5.490	31.969	69.043	1.00 13.30
ATOM	2424	CA	ASP			5.895	31.246	70.222	1.00 16.21
ATOM	2425	C	ASP			7.274	30.591	70.003	1.00 17.53
	2426	0	ASP			8.008	30.260	70.927	1.00 15.45
ATOM									
MOTA	2427	СВ	ASP			4.866	30.143	70.538	1.00 17.39
ATOM	2428	CG	ASP			3.597	30.710	71.126	1.00 16.83
MOTA	2429	OD1	ASP			3.467	31.852	71.479	1.00 19.29
MOTA	2430	OD2	ASP	A	312	2.658	29.837	71.234	1.00 22.09
MOTA	2431	N	HIS	A	313	7.628	30.392	68.748	1.00 13.40
ATOM	2432	CA	HIS	A	313	8.881	29.767	68.392	1.00 11.86
MOTA	2433	C	HIS	Α	313	9.855	30.779	67.820	1.00 14.50
ATOM	2434	0	HIS	A	313	10.768	30.463	67.080	1.00 17.00
ATOM	2435	CB	HIS	Α	313	8.547	28.724	67.308	1.00 14.08
ATOM	2436	CG	HIS	Α	313	7.649	27.679	67.892	1.00 16.09
ATOM	2437		HIS			8.144	26.653	68.689	1.00 15.85
ATOM	2438		HIS			6.287	27.557	67.842	1.00 13.64
ATOM	2439		HIS			7.097	25.922	69.096	1.00 14.23
ATOM	2440		HIS			5.985	26.458	68.615	1.00 13.52
ATOM	2441	N	PHE			9.654	32.022	68.178	1.00 14.17
			PHE					67.723	1.00 13.18
ATOM	2442	CA				10.435	33.140		
ATOM	2443	C	PHE			11.910	32.890	67.944	1.00 13.98
MOTA	2444	0	PHE			12.775	33.355	67.210	1.00 13.88
ATOM	2445	СВ	PHE			9.968	34.367	68.516	1.00 11.94
MOTA	2446	CG	PHE			10.644	35.668	68.130	1.00 16.32
MOTA	2447		PHE			10.734	36.090	66.802	1.00 15.58
MOTA	2448	CD2				11.163	36.510	69.121	1.00 16.22
ATOM	2449	CE1	PHE	А	314	11.326	37.314	66.482	1.00 15.39
MOTA	2450	CE2	PHE	A	314	11.779	37.727	68.826	1.00 17.56
MOTA	2451	CZ	PHE	А	314	11.857	38.128	67.490	1.00 16.63
ATOM	2452	N	TRP	Α	315	12.244	32.131	68.950	1.00 11.22
MOTA	2453	CA	TRP	A	315	13.701	31.921	69.150	1.00 8.85
MOTA	2454	C	TRP	Α	315	14.386	31.236	67.968	1.00 16.46
MOTA	2455	0	TRP	Α	315	15.577	31.416	67.735	1.00 17.37
MOTA	2456	CB	TRP	A	315	13.968	31.130	70.425	1.00 7.05
MOTA	2457	CG	TRP	Α	315	13.737	29.668	70.223	1.00 11.50
ATOM	2458	CD1	TRP	Α	315	12.552	28.982	70.289	1.00 14.09
ATOM	2459	CD2				14.755	28.696	69.909	1.00 14.05
MOTA	2460	NE1				12.757	27.639	70.053	1.00 14.75
MOTA	2461	CE2	TRP			14.112	27.426	69.829	1.00 19.21
MOTA	2462	CE3	TRP			16.135	28.783	69.668	1.00 14.13
ATOM	2463	CZ2	TRP			14.854	26.239	69.553	1.00 18.59
ATOM	2464	CZ3	TRP			16.848	27.603	69.408	1.00 15.80
ATOM	2465		TRP			16.225	26.341	69.370	1.00 15.36
	2466	N N	LEU			13.665	30.427	67.199	1.00 15.45
ATOM			LEU			14.275	29.786	66.039	1.00 15.45
ATOM	2467	CA							1.00 19.42
ATOM	2468	C	LEU			14.806	30.877	65.102	
ATOM	2469	0	LEU			15.912	30.785	64.558	1.00 18.71
ATOM	2470	CB	LEU			13.187	28.974	65.268	1.00 16.46
ATOM	2471	CG	LEU			12.679	27.700	65.971	1.00 17.87
MOTA	2472		LEU			11.619	27.020	65.096	1.00 15.05
ATOM	2473		TEA			13.812	26.696	66.232	1.00 16.57
ATOM	2474	N	asn			14.004	31.928	64.892	1.00 12.40
ATOM	2475	CA	ASN	A	317	14.421	33.011	64.034	1.00 12.09
ATOM	2476	C	asn			15.639	33.720	64.594	1.00 19.91
ATOM	2477	0	ASN	A	317	16.680	33.810	63.968	1.00 20.50
ATOM	2478	CB	ASN	A	317	13.304	34.073	63.870	1.00 18.56
ATOM	2479	CG	ASN	Α	317	12.331	33.798	62.729	1.00 19.35
ATOM	2480		ASN			12.028	32.647	62.381	1.00 15.37

	MOTA	2481	ND2	ASN	A	317	11.761	34.856	62.180	1.00	15.57
ATOM 2485 O GLU A 318 17.754 34.318 66.948 1.00 14  ATOM 2486 CB GLU A 318 18.861 34.762 66.724 1.00 14  ATOM 2487 CG GLU A 318 15.894 36.023 67.500 10.0 9.  ATOM 2489 CB GLU A 318 15.409 37.898 65.776 1.00 14.  ATOM 2489 OBE GLU A 318 15.409 37.898 65.776 1.00 14.  ATOM 2489 OBE GLU A 318 16.597 38.104 65.536 1.00 13.  ATOM 2490 OBE GLU A 318 16.597 38.104 65.536 1.00 13.  ATOM 2491 N GLY A 319 17.586 33.196 67.672 1.00 11.  ATOM 2492 CA GLY A 319 17.586 33.196 67.672 1.00 11.  ATOM 2493 C GLY A 319 18.740 32.468 68.173 1.00 11.  ATOM 2494 O GLY A 319 19.655 31.995 67.047 1.00 16.  ATOM 2495 N HIS A 320 19.18 31.374 65.991 1.00 15.  ATOM 2496 CA HIS A 320 19.953 30.915 64.885 1.00 13.  ATOM 2497 C HIS A 320 19.953 30.915 64.885 1.00 13.  ATOM 2498 O HIS A 320 19.963 30.915 64.885 1.00 13.  ATOM 2499 CB HIS A 320 19.18 30.128 63.832 1.00 12.  ATOM 2500 CG HIS A 320 19.18 30.128 63.832 1.00 12.  ATOM 2501 ND1 HIS A 320 19.148 30.128 63.832 1.00 12.  ATOM 2502 CD2 HIS A 320 19.653 64.895 1.00 17.  ATOM 2503 CEI HIS A 320 19.48 30.128 63.832 1.00 12.  ATOM 2504 NBE HIS A 320 19.48 30.128 63.832 1.00 12.  ATOM 2505 N THR A 321 19.952 33.190 64.090 10.0 12.  ATOM 2506 CA THR A 321 19.952 33.190 64.090 10.0 12.  ATOM 2507 C THR A 321 19.952 33.190 64.090 10.0 12.  ATOM 2508 O THR A 321 19.952 33.190 64.090 10.0 12.  ATOM 2509 CB THR A 321 19.952 33.190 64.090 10.0 12.  ATOM 2501 CG THR A 321 19.952 33.190 64.090 10.0 12.  ATOM 2502 CD2 HIS A 320 19.489 36.593 64.203 1.00 19.  ATOM 2503 CC THR A 321 19.952 33.190 64.090 10.0 12.  ATOM 2504 NBE HIS A 320 19.469 34.376 63.465 1.00 17.  ATOM 2505 N THR A 321 19.952 33.190 64.090 1.00 12.  ATOM 2506 CA THR A 321 19.952 33.190 64.090 1.00 12.  ATOM 2507 C THR A 321 22.678 35.421 63.665 1.00 17.  ATOM 2510 CG THR A 321 22.678 35.421 63.665 1.00 17.  ATOM 2512 N VAL A 322 22.678 35.421 63.665 1.00 19.  ATOM 2513 CA VAL A 322 22.678 35.595 64.203 1.00 19.  ATOM 2514 C TYR A 323 25.506 29.350 67.074 1.00 12.  ATOM 2525 CD TYR A 323 25.506 29.350 67.074 1.00 12.  ATOM 2526	ATOM	2482	N	GLU	A	318	15.486	34.281	65.789	1.00	15.19
ATOM 2486 CB GLU A 318	MOTA	2483	CA	GLU	A	318	16.522	35.073	66.433	1.00	11.97
ATOM 2486 CB GLU A 318	ATOM	2484	С	GLU	Α	318	17.754	34.318	66.948	1.00	14.90
ATOM 2486 CB GLU A 318	ATOM	2485	0	GLŪ	A	318	18.861	34.762	66.724	1.00	14.03
ATOM 2488 CG GLU A 318			CB	GLU	Α	318	15.894	36.023	67.500	1.00	9.48
ATOM 2489 CD GLU A 318										1.00	8.24
ATOM 2490 OE2 GLU A 318											14.75
ATOM 2491 N GLY A 319 17.586 33.196 67.672 1.00 13. ATOM 2491 N GLY A 319 17.586 33.196 67.672 1.00 11. ATOM 2492 CA GLY A 319 18.740 32.468 68.173 1.00 11. ATOM 2493 C GLY A 319 19.655 31.995 67.047 1.00 16. ATOM 2494 O GLY A 319 20.862 32.192 67.142 1.00 16. ATOM 2495 N HIS A 320 19.188 31.374 65.991 1.00 13. ATOM 2496 CA HIS A 320 19.963 30.915 64.885 1.00 13. ATOM 2497 C HIS A 320 20.671 32.086 64.195 1.00 14. ATOM 2498 O HIS A 320 20.671 32.086 64.195 1.00 14. ATOM 2498 O HIS A 320 19.148 30.128 63.832 1.00 12. ATOM 2498 O HIS A 320 19.148 30.128 63.832 1.00 12. ATOM 2500 CG HIS A 320 19.459 28.772 64.335 1.00 16. ATOM 2501 NDI HIS A 320 19.459 27.585 64.203 1.00 19. ATOM 2502 CD2 HIS A 320 19.459 27.585 64.203 1.00 19. ATOM 2503 CE1 HIS A 320 17.644 27.262 65.413 1.00 17. ATOM 2504 NE2 HIS A 320 17.644 27.262 65.413 1.00 17. ATOM 2505 N THR A 321 19.952 33.190 64.090 1.00 12. ATOM 2506 CA THR A 321 19.952 33.190 64.090 1.00 12. ATOM 2507 C THR A 321 20.492 34.376 63.465 1.00 15. ATOM 2508 O THR A 321 20.492 34.376 63.465 1.00 17. ATOM 2509 CB THR A 321 20.492 34.376 63.465 1.00 17. ATOM 2509 CB THR A 321 19.952 33.190 64.090 1.00 12. ATOM 2501 OGI THR A 321 19.952 33.190 64.090 1.00 12. ATOM 2508 C THR A 321 20.492 34.376 63.465 1.00 17. ATOM 2509 C B THR A 321 20.492 34.376 63.465 1.00 17. ATOM 2510 CG THR A 321 22.678 35.421 63.665 1.00 17. ATOM 2511 CG2 THR A 321 19.406 35.394 66.034 1.00 19. ATOM 2512 N VAL A 322 22.615 35.545 66.391 1.00 12. ATOM 2514 C VAL A 322 22.615 35.545 66.391 1.00 12. ATOM 2515 CG THR A 321 32.448 33.319 66.065 1.00 17. ATOM 2516 CB VAL A 322 22.615 35.545 66.195 1.00 16. ATOM 2517 CG1 VAL A 322 22.615 35.545 66.195 1.00 16. ATOM 2518 CG2 VAL A 322 22.615 35.545 66.391 1.00 12. ATOM 2519 N TYR A 323 23.484 33.319 66.007 1.00 12. ATOM 2520 C TYR A 323 25.095 34.986 66.234 1.00 16. ATOM 2521 C TYR A 323 25.096 29.841 66.067 1.00 15. ATOM 2522 C TYR A 323 26.602 29.841 66.6161 1.00 12. ATOM 2523 CB TYR A 323 26.602 29.841 66.607 1.00 15. ATOM 2524 CG TYR A 323 26.600 27.789 65.8											
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ATOM 2538 CD2 LEU A 324 24.905 30.704 60.448 1.00 23.											
	ATOM	2538	CD2	LEU	A	324	24.905	30.704	60.448	1.00	23.48

MOTA	2539	N	GLU	A	325	25.332	35.361	62.859	1.00 15.4	17
ATOM	2540	CA	GLU	A	325	25.885	36.694	63.007	1.00 13.6	55
ATOM	2541	С	GLU			27.246	36.636	63.628	1.00 16.3	
ATOM	2542	0	GLU			28.168	37.246	63.123	1.00 15.3	
ATOM	2543	CB	GLU			24.988	37.464	63.996	1.00 16.3	
ATOM	2544	CG	GLU			25.472	38.890	64.363	1.00 20.5	
									1.00 20.3	
ATOM	2545	CD	GLU			24.743	39.395	65.599		
MOTA	2546		GLU			23.641	39.008	65.966	1.00 18.4	
ATOM	2547		GLU			25.421	40.260	66.301	1.00 21.6	
MOTA	2548	N	ARG			27.329	35.892	64.727	1.00 15.2	
MOTA	2549	CA	ARG			28.565	35.781	65.469	1.00 14.9	
MOTA	2550	С	ARG			29.651	35.048	64.718	1.00 18.2	
ATOM	2551	0	ARG			30.828	35.316	64.914	1.00 16.5	55
MOTA	2552	CB	ARG	A	326	28.367	35.352	66.915	1.00 15.3	L 5
MOTA	2553	CG	ARG	A	326	27.548	36.410	67.619	1.00 11.3	35
ATOM	2554	CD	ARG	A	326	27.266	36.102	69.095	1.00 11.3	37
ATOM	2555	NE	ARG	Α	326	26.619	37.266	69.724	1.00 14.7	76
ATOM	2556	CZ	ARG	Α	326	25.805	37.229	70.769	1.00 16.1	13
MOTA	2557	NH1	ARG	A	326	25.523	36.107	71.419	1.00 8.4	10
ATOM	2558		ARG			25.262	38.379	71.166	1.00 16.4	13
ATOM	2559	N	HIS			29.233	34.146	63.843	1.00 17.3	
ATOM	2560	CA	HIS			30.174	33.400	63.018	1.00 19.6	
MOTA	2561	C	HIS			30.700	34.341	61.938	1.00 18.8	
ATOM	2562		HIS			31.866	34.359	61.573	1.00 19.4	
MOTA	2563	CB	HIS			29.485	32.146	62.407	1.00 17.9	
ATOM	2564	CG	HIS			29.698	30.875	63.188	1.00 19.1	
ATOM	2565		HIS			30.973	30.414	63.524	1.00 20.0	
ATOM	2566		HIS			28.792	29.954	63.642	1.00 18.1	
ATOM	2567		HIS			30.824	29.266	64.188	1.00 18.8	
ATOM	2568		HIS			29.519	28.976	64.284	1.00 19.6	
ATOM	2569	N	ILE			29.827	35.168	61.391	1.00 14.6	
	2570	CA	ILE			30.304	36.097	60.362	1.00 14.0	
ATOM		C	ILE					60.935	1.00 28.0	
ATOM	2571					31.423	36.971			
ATOM	2572	0	ILE			32.504	37.099	60.355	1.00 26.1	
ATOM	2573	CB	ILE			29.145	36.946	59.788	1.00 16.1	
ATOM	2574		ILE			28.220	36.087	58.911	1.00 19.0	
ATOM	2575		ILE			29.642	38.126	58.968	1.00 18.6	
ATOM	2576		ILE			26.852	36.718	58.595	1.00 14.5	
ATOM	2577	N	CYS			31.139	37.562	62.116	1.00 21.5	
ATOM	2578	CA	CYS			32.040	38.433	62.826	1.00 19.8	
ATOM	2579	C	CYS			33.306	37.718	63.233	1.00 20.2	
ATOM	2580	0	CYS			34.391	38.278	63.154	1.00 21.3	
MOTA	2581	CB	CYS			31.309	39.092	64.007	1.00 26.3	
MOTA	2582	SG	CYS			30.024	40.241	63.391	1.00 33.2	
ATOM	2583	N	GLY			33.169	36.480	63.655	1.00 17.3	
MOTA	2584	CA	GLY			34.314	35.683	64.039	1.00 17.8	
MOTA	2585	С	GLY			35.160	35.471	62.786	1.00 23.	
MOTA	2586	0	GLY			36.381	35.479	62.773	1.00 19.2	
ATOM	2587	N	ARG			34.494	35.297	61.673	1.00 23.4	
ATOM	2588	CA	ARG			35.238	35.107	60.454	1.00 25.4	12
MOTA	2589	С	ARG			35.949	36.374	60.013	1.00 27.0	
MOTA	2590	0	ARG			37.066	36.354	59.519	1.00 30.5	59
MOTA	2591	CB	ARG			34.323	34.671	59.328	1.00 29.5	
ATOM	2592	CG	ARG	A	331	34.103	33.178	59.357	1.00 42.3	38
ATOM	2593	CD	ARG			34.542	32.499	58.075	1.00 45.	52
MOTA	2594	NB	ARG	A	331	33.755	31.307	57.851	1.00 59.3	13
MOTA	2595	CZ	ARG	A	331	33.469	30.431	58.821	1.00 84.6	69
MOTA	2596	NH1	ARG	Α	331	33.882	30.552	60.089	1.00 53.4	45

ATOM	2597	миэ	ARG .	Δ	331	32.744	29.367	58.501	1 00	89.38
ATOM	2598	N	LEU			35.309	37.506	60.144		
										18.29
ATOM	2599	CA	LEU .			35.960	38.699	59.689		18.18
MOTA	2600	C	LEU .			36.972	39.217	60.683		27.48
MOTA	2601	0	LEU :	A	332	37.943	39.809	60.248	1.00	26.78
MOTA	2602	CB	LEU .	A	332	34.892	39.790	59.583	1.00	20.70
MOTA	2603	CG	LEU :	Α	332	34.604	40.445	58.237	1.00	29.09
ATOM	2604	CD1	LEU :	Α	332	34.898	39.569	57.036	1.00	26.07
ATOM	2605	CD2	LEU .	A	332	33.138	40.831	58.200		29.25
ATOM	2606	N	PHE			36.721	39.049	61.995		21.64
ATOM	2607	CA	PHE			37.570	39.583	63.050		20.45
ATOM	2608	C	PHE			38.248	38.620	63.966		21.67
MOTA	2609	0	PHE							27.38
						39.050	39.031	64.794		
ATOM	2610	CB	PHE 2			36.882	40.672	63.907		23.81
MOTA	2611	CG	PHE			36.150	41.625	62.994		25.90
ATOM	2612		PHE I			36.871	42.470	62.151	1.00	27.97
ATOM	2613		PHE			34.757	41.624	62.931	1.00	27.62
ATOM	2614	CEl	PHE .	Α	333	36.198	43.314	61.269	1.00	30.62
MOTA	2615	CE2	PHE 2	Α	333	34.069	42.462	62.053	1.00	32.30
ATOM	2616	CZ	PHE I	A	333	34.804	43.309	61.221	1.00	30.11
MOTA	2617	N	GLY :			37.950	37.362	63.877	1.00	17.26
ATOM	2618	ÇA	GLY I	A	334	38.653	36.481	64.791		18.41
ATOM	2619	C	GLY I			37.735	35.732	65.735		23.30
ATOM	2620	0	GLY A			36.758	36.276	66.244		21.87
ATOM	2621	Ŋ	GLU 2			38.100	34.471	65.947		18.34
ATOM	2622	CA	GLU A							
						37.377	33.558	66.821		20.82
ATOM	2623	C	GLU A			37.301	34.102	68.238		20.81
ATOM	2624	0	GLU A			36.341	33.888	68.975		20.60
ATOM	2625	CB	GLU Z			38.057	32.183	66.811		19.30
ATOM	2626	CG	GLU Z			37.366	31.179	67.751	1.00	22.22
ATOM	2627	CD	GLU Z			35.963	30.786	67.350	1.00	22.99
ATOM	2628	OE1				35.278	31.338	66.513	1.00	26.34
ATOM	2629	OE2	GLU A	A	335	35.554	29.762	68.020	1.00	20.74
MOTA	2630	N	LYS 2	Α	336	38.327	34.845	68.615	1.00	17.24
ATOM	2631	CA	LYS A	A.	336	38.375	35.413	69.947	1.00	16.83
ATOM	2632	C	LYS A	A	336	37.316	36.470	70.050	1.00	17.51
MOTA	2633	0	LYS A	A	336	36.732	36.668	71.110	1.00	17.26
ATOM	2634	CB	LYS Z			39.735	36.002	70.264	1.00	16.58
ATOM	2635	CG	LYS A			40.725	34.912	70.659		20.77
ATOM	2636	CD	LYS A			42.162	35.378	70.871		32.80
ATOM	2637	CE	LYS A			43.184	34.329	70.432		66.91
ATOM	2638	NZ	LYS A			44.484		71.112		80.02
ATOM	2639	N	PHE A	_		37.094				
			PHE A				37.146	68.927		11.07
ATOM	2640	CA				36.075	38.183	68.893		13.51
ATOM	2641	C	PHE A			34.691	37.519	68.993		18.73
ATOM	2642	0	PHE 2			33.797	37.992	69.659		15.94
ATOM	2643	CB	PHE A			36.113	38.963	67.569		14.14
ATOM	2644	CG	PHE A				40.194			19.04
MOTA	2645		PHE A			35.266	41.054	68.734		23.19
MOTA	2646		PHE A			34.406	40.562	66.571	1.00	25.81
ATOM	2647	CE1	PHE A	Α	337	34.473	42.209	68.789	1.00	26.28
ATOM	2648	CE2	PHE A	A	337	33.634	41.727	66.594	1.00	26.38
ATOM	2649	CZ	PHE A	A	337	33.645	42.557	67.718		25.06
ATOM	2650	N	ARG A			34.501	36.384	68.327		16.12
ATOM	2651	CA	ARG A			33.239	35.665	68.384		15.03
MOTA	2652	C	ARG A			32.936	35.314	69.804		18.17
ATOM	2653	ō	ARG A				35.480			18.12
ATOM	2654		ARG A							
AIUN	2034	CB	ARU A	•	220	33.294	34.359	67.617	1.00	11.66

MOTA	2655	CG	ARG	A	338	31.961	33.629	67.660	1.00 1	L2.35
MOTA	2656	CD	ARG	A	338	31.899	32.552	66.583	1.00	17.19
MOTA	2657	NE	ARG	A	338	32.554	31.328	67.051	1.00	17.53
ATOM	2658	CZ	ARG	A	338	31.981	30.175	67.417	1.00 2	23.05
ATOM	2659	NH1	ARG	A	338	30.670	29.953	67.424	1.00	16.55
MOTA	2660	NH2	ARG	A	338	32.772	29.179	67.803	1.00	12.25
ATOM	2661	N	HIS	A	339	33.956	34.816	70.504	1.00	12.76
ATOM	2662	CA	HIS	Α	339	33.772	34.426	71.888	1.00	13.75
MOTA	2663	С	HIS	A	339	33.408	35.617	72.756	1.00	18.91
ATOM	2664	0	HIS	A	339	32.587	35.520	73.655	1.00	L2.72
MOTA	2665	CB	HIS	Α	339	35.006	33.697	72.480	1.00	14.46
MOTA	2666	CG	HIS	A	339	34.975	32.250	72.096	1.00	L4.96
MOTA	2667	ND1	HIS	A	339	34.952	31.249	73.046	1.00	L5.14
MOTA	2668	CD2	HIS	A	339	34.943	31.693	70.855	1.00 1	L5.02
MOTA	2669	CE1	HIS	Α	339	34.914	30.101	72.405	1.00	L2.56
ATOM	2670	NE2	HIS	A	339	34.895	30.343	71.097	1.00	L5.39
MOTA	2671	N	PHE	Α	340	34.066	36.739	72.487	1.00	L6.25
MOTA	2672	CA	PHE	A	340	33.832	37.961	73.250	1.00	13.96
MOTA	2673	C	PHE	A	340	32.361	38.397	73.164	1.00	16.27
ATOM	2674	0	PHE	A	340	31.700	38.760	74.158	1.00	13.82

MOTA	2675	CB	PHE A	340	34.823	39.032	72.753	1.00 11.82
MOTA	2676	CG	PHE A	340	34.525	40.414	73.286	1.00 14.06
MOTA	2677	CD1	PHE A	340	35.064	40.835	74.503	1.00 13.72
MOTA	2678	CD2	PHE A	340	33.703	41.284	72.566	1.00 16.13
MOTA	2679		PHE A		34.753	42.091	75.016	1.00 8.85
ATOM	2680	CE2	PHE A	340	33.401	42.560	73.044	1.00 16.77
MOTA	2681	CZ	PHE A		33.937	42.946	74.273	1.00 11.27
MOTA	2682	N	ASN A		31.871	38.363	71.925	1.00 13.64
MOTA	2683	CA	asn a		30.507	38.730	71.637	1.00 15.75
MOTA	2684	C	asn a		29.529	37.762	72.257	1.00 18.72
MOTA	2685	0	ASN A		28.446	38.129	72.717	1.00 19.01
MOTA	2686	CB	ASN A		30.256	38.827	70.136	1.00 15.22
MOTA	2687	CG	ASN A		30.886	40.099	69.603	1.00 29.77
ATOM	2688		ASN A		31.197	40.172	68.416	1.00 60.07
ATOM	2689	ND2	ASN A		30.995	41.133	70.437	1.00 17.13
MOTA	2690	N	ALA A		29.908	36.511	72.229	1.00 11.92
MOTA	2691	CA	ALA A		29.065	35.487	72.804	1.00 12.85
MOTA	2692	C	ALA A		28.923	35.676	74.314	1.00 15.91
ATOM	2693	0	ALA A		27.832	35.578	74.884	1.00 14.84
ATOM	2694	CB	ALA A		29.614	34.099	72.492	1.00 12.26 1.00 13.24
MOTA	2695	N	LEU A		30.043	35.937	74.986	
MOTA	2696	CA	LEU A		30.030	36.113	76.417	1.00 10.68
MOTA	2697	С	LEU A		29.264	37.372	76.748	1.00 14.78
ATOM	2698	0	LEU A		28.551	37.413	77.737	1.00 18.40 1.00 9.64
ATOM	2699	CB	LEU A		31.459	36.148	77.006	1.00 9.64 1.00 14.79
MOTA	2700	CG	LEU A		31.476	36.187	78.528	1.00 11.42
MOTA	2701		LEU A		30.680	35.010	79.105 78.992	1.00 11.42
ATOM	2702	CD2	LEU A		32.931	36.014	75.953	1.00 14.08
ATOM	2703	N	GLY A		29.420	38.440	76.253	1.00 10.09
MOTA	2704	CA	GLY A		28.648	39.658	76.233	1.00 10.05
ATOM	2705	C	GLY A		27.124 26.321	39.384 39.969	76.838	1.00 17.03
MOTA	2706	0	GLY A		26.706	38.516	75.167	1.00 17.02
ATOM	2707	N CA	GLY A		25.298	38.162	74.927	1.00 8.39
ATOM	2708 2709	CA	GLY A		24.753	37.490	76.190	1.00 13.97
ATOM ATOM	2710	0	GLY A		23.611	37.741	76.620	1.00 12.61
ATOM	2711	N	TRP A		25.592	36.634	76.814	1.00 13.97
ATOM	2712	CA	TRP A		25.230	35.929	78.059	1.00 9.72
ATOM	2713	C	TRP A		24.922	37.005	79.095	1.00 15.65
ATOM	2714	ō	TRP A		23.975	36.947	79.906	1.00 12.16
ATOM	2715	CB	TRP A		26.367	34.981	78.555	1.00 8.14
ATOM	2716	CG	TRP A		25.958	34.282	79.835	1.00 10.60
ATOM	2717	CD1	TRP A	346	26.106	34.787	81.102	1.00 12.86
MOTA	2718	CD2	TRP A	346	25.267	33.009	80.004	1.00 11.80
ATOM	2719	NE1	TRP A	346	25.585	33.926	82.032	1.00 13.12
MOTA	2720	CE2	TRP A	346	25.065	32.806	81.394	1.00 16.02
ATOM	2721	CE3	TRP A	346	24.806	32.001	79.140	1.00 14.58
ATOM	2722	CZ2			24.431	31.641	81.909	1.00 14.92
MOTA	2723	CZ3	TRP A	346	24.188	30.860	79.646	1.00 14.14
MOTA	2724	CH2	TRP A		23.982	30.685	81.027	
MOTA	2725	N	GLY A	347	25.728	38.064	79.012	1.00 10.25
MOTA	2726	CA	GLY A		25.516	39.160	79.953	1.00 11.27
MOTA	2727	C	GLY A		24.171	39.838	79.758	1.00 11.91
MOTA	2728	0	GLY A		23.531	40.217	80.724	1.00 12.39
MOTA	2729	N	GLU A		23.789	40.049	78.500	1.00 13.80
MOTA	2730	CA	GLU A		22.502	40.674	78.185	1.00 11.62
MOTA	2731	С	GLU A		21.399	39.762	78.682	1.00 16.45
MOTA	2732	0	GLU A		20.381	40.234	79.211	1.00 14.72
MOTA	2733	CB	GLU A		22.401	40.992	76.683	1.00 11.49
ATOM	2734	CG	GLU A		23.434	42.056	76.317	1.00 12.72
MOTA	2735	CD	GLU A	348	23.027	43.349	76.970	1.00 29.34

MOTA	2736	OE1	GLU A	348	21.910	43.796	76.855	1.00 45.66
ATOM	2737	OE2	GLU A	348	23.939	43.872	77.746	1.00 21.11
MOTA	2738	N	LEU A		21.648	38.442	78.531	1.00 11.46
MOTA	2739	CA	LEU A		20.686	37.471	79.030	1.00 12.33
ATOM	2740	C	LEU A		20.538	37.591	80.565	1.00 17.72
ATOM	2741	ō	LEU A		19.438	37.548	81.111	1.00 13.76
ATOM	2742	CB	LEU A		21.011	36.014	78.591	1.00 13.76
		CG	LEU A				79.079	1.00 12.25
MOTA	2743				20.011	34.943		
ATOM	2744		LEU A		18.665	35.153	78.379	1.00 9.66
ATOM	2745	CD2	LEU A		20.532	33.546	78.712	1.00 13.00
ATOM	2746	N	GLN A		21.631	37.719	81.301	1.00 12.48
ATOM	2747	CA	GLN A		21.524	37.864	82.738	1.00 8.81
MOTA	2748	C	GLN A		20.685	39.085	83.083	1.00 15.50
MOTA	2749	0	GLN A		19.876	39.083	84.015	1.00 18.35
ATOM	2750	CB	GLN A	. 350	22.929	38.135	83.300	1.00 12.42
MOTA	2751	CG	GLN A	350	23.810	36.867	83.324	1.00 13.26
MOTA	2752	CD	GLN A	. 350	25.238	37.162	83.789	1.00 25.25
ATOM	2753	OE1	GLN A	. 350	25.856	36.393	84.540	1.00 24.47
ATOM	2754	NE2	GLN A	350	25.770	38.303	83.383	1.00 17.04
ATOM	2755	N	ASN A	351	20.856	40.155	82.316	1.00 15.07
ATOM	2756	CA	ASN A		20.111	41.382	82.543	1.00 13.40
ATOM	2757	C	ASN A		18.641	41.166	82.291	1.00 15.52
ATOM	2758	Ö	ASN A		17.800	41.602	83.072	1.00 14.93
ATOM	2759	CB	ASN A		20.581	42.551	81.657	1.00 15.98
			ASN A		21.996	42.987	81.972	1.00 10.13
MOTA	2760	CG					82.928	1.00 16.13
MOTA	2761	OD1			22.615	42.513		1.00 18.52
MOTA	2762	ND2	ASN A		22.563	43.766	81.065	
MOTA	2763	N	SER A		18.310	40.514	81.187	1.00 11.92
MOTA	2764	CA	SER A		16.888	40.272	80.893	1.00 12.49
MOTA	2765	C	SER A		16.167	39.437	81.959	1.00 16.90
MOTA	2766	0	SER A	. 352	15.015	39.650	82.332	1.00 15.33
ATOM	2767	CB	SER A		16.772	39.519	79.567	1.00 17.32
MOTA	2768	OG	SER A	. 352	16.959	40.434	78.526	1.00 24.23
MOTA	2769	И	VAL A	. 353	16.861	38.419	82.432	1.00 14.57
MOTA	2770	CA	VAL A	353	16.321	37.538	83.446	1.00 13.92
ATOM	2771	C	VAL A	353	16.163	38.312	84.734	1.00 20.86
MOTA	2772	0	VAL A	353	15.191	38.139	85.468	1.00 17.05
MOTA	2773	CB	VAL A	353	17.158	36.280	83.664	1.00 11.73
ATOM	2774	CG1	VAL A	. 353	16.794	35.472	84.932	1.00 9.84
ATOM	2775	CG2	VAL A		17.089	35.402	82.409	1.00 12.88
MOTA	2776	N	LYS A		17.112	39.198	84.995	1.00 14.12
MOTA	2777	CA	LYS A		17.002	39.913	86.238	1.00 12.36
ATOM	2778	C	LYS A		15.826	40.848	86.179	1.00 17.58
MOTA	2779	ō	LYS A		15.072	41.024	87.109	1.00 19.87
MOTA	2780	CB	LYS A		18.298	40.637	86.571	1.00 17.00
MOTA	2781	CG	LYS A		18.143	41.562	87.760	1.00 23.68
MOTA	2782	CD	LYS A		19.434	42.305	88.057	1.00 46.34
MOTA	2783	CE	LYS A		19.458	43.018	89.409	1.00 67.61
	2784	NZ	LYS A		20.473	44.087	89.499	1.00 72.09
ATOM		N	THR A				85.045	1.00 17.30
ATOM	2785				15.685	41.464		
MOTA	2786	CA	THR A		14.634	42.423	84.776	1.00 19.03
MOTA	2787	C	THR A		13.239	41.788	84.894	1.00 24.56
MOTA	2788	0	THR A		12.375	42.258	85.644	1.00 21.41
MOTA	2789	CB	THR A		14.938	43.046	83.383	1.00 26.33
ATOM	2790	OG1			15.936	44.041	83.502	1.00 33,25
MOTA	2791	CG2	THR A		13.720	43.535	82.618	1.00 35.80
MOTA	2792	N	PHE A		12.986	40.698	84.173	1.00 15.72
MOTA	2793	CA	PHE A		11.685	40.084	84.266	1.00 13.01
MOTA	2794	C	PHE A	356	11.492	39.347	85.550	1.00 16.31
MOTA	2795	0	PHE A	356	10.364	39.197	85.974	1.00 17.60
MOTA	2796	CB	PHE A	356	11.633	38.916	83.282	1.00 14.64

MOTA	2797	CG	PHE A	356	11.306	39.389	81.925	1.00 20.28
ATOM	2798	CD1	PHE A	356	10.172	40.180	81.740	1.00 26.98
ATOM	2799	CD2	PHE A	356	12.119	39.030	80.848	1.00 25.24
ATOM	2800	CE1	PHE A	356	9.854	40.645	80.463	1.00 32.69
ATOM	2801	CE2	PHE A		11.801	39.480	79.568	1.00 32.46
ATOM	2802	CZ	PHE A		10.672	40.285	79.388	1.00 34.40
ATOM	2803	N	GLY A		12.567	38.773	86.080	1.00 13.33
	2804	CA	GLY A		12.484	37.898	87.250	1.00 13.08
MOTA		CA	GLY A					
ATOM	2805				12.710	36.459	86.719	1.00 14.31
ATOM	2806	0	GLY A		12.203	36.080	85.639	1.00 15.86
MOTA	2807	N	GLU A		13.458	35.652	87.492	1.00 10.82
MOTA	2808	CA	GLU A		13.852	34.295	87.104	1.00 14.45
MOTA	2809	С	GLU A		12.748	33.275	86.946	1.00 17.31
MOTA	2810	0	GLU A		12.966	32.190	86.382	1.00 16.43
MOTA	2811	CB	GLU A	358	14.976	33.766	88.003	1.00 15.36
MOTA	2812	CG	GLU A	358	14.483	33.548	89.449	1.00 29.12
MOTA	2813	CD	GLU A	358	15.577	33.165	90.432	1.00 29.41
MOTA	2814	OE1	GLU A	358	16.737	32.999	90.104	1.00 53.87
ATOM	2815	OE2	GLU A	358	15.150	33.063	91.673	1.00 78.82
ATOM	2816	N	THR A	359	11.552	33.623	87.445	1.00 15.09
ATOM	2817	CA	THR A		10.397	32.715	87.319	1.00 14.57
ATOM	2818	C	THR A		9.370	33.195	86.297	1.00 18.20
ATOM	2819	ō	THR A		8.308	32.602	86.161	1.00 17.32
ATOM	2820	CB	THR A		9.665	32.513	88.661	1.00 10.95
ATOM	2821	OG1			9.014	33.714	89.058	1.00 16.14
ATOM		CG2	THR A		10.598	31.933	89.726	1.00 10.14
	2822		HIS A		9.704	34.267	85.600	1.00 13.00
MOTA	2823	N			8.838			1.00 13.60
MOTA	2824	CA	HIS A			34.886	84.648	1.00 13.82
ATOM	2825	C	HIS A		8.702	34.081	83.372	
ATOM	2826	0	HIS A		9.701	33.663	82.770	1.00 18.40
MOTA	2827	CB	HIS A		9.369	36.276	84.298	1.00 14.44
ATOM	2828	CG	HIS A		8.321	37.043	83.556	1.00 16.43
MOTA	2829		HIS A		7.725	38.218	84.074	1.00 18.54
MOTA	2830		HIS A		7.765	36.779	82.349	1.00 13.02
MOTA	2831		HIS A		6.832	38.646	83.174	1.00 15.62
MOTA	2832	NE2			6.848	37.781	82.139	1.00 17.56
MOTA	2833	N	PRO A	361	7.447	33.890	82.953	1.00 18.85
MOTA	2834	CA	PRO A		7.204	33.111	81.752	1.00 17.22
MOTA	2835	С	PRO A	361	7.871	33.616	80.481	1.00 18.11
MOTA	2836	0	PRO A	361	8.093	32.859	79.534	1.00 16.08
MOTA	2837	CB	PRO A	361	5.680	32.939	81.654	1.00 17.39
ATOM	2838	CG	PRO A	361	5.232	32.970	83.121	1.00 22.59
ATOM	2839	CD	PRO A	361	6.220	33.896	83.819	1.00 17.68
ATOM	2840	N	PHE A	362	8.192	34.899	80.434	1.00 13.89
ATOM	2841	CA	PHE A	362	8.822	35.408	79.237	1.00 15.98
ATOM	2842	C	PHE A	362	10.286	35.089	79.221	1.00 13.98
ATOM	2843	0	PHE A	362	10.926	35.501	78.277	1.00 14.94
MOTA	2844	CB.	PHE A	362	8.690	36.921	79.035	1.00 19.97
MOTA	2845	CG	PHE A	362	7.273	37.416	78.899	1.00 23.23
ATOM	2846		PHE A		6.227	36.538	78.616	1.00 24.55
ATOM	2847		PHE A		6.998	38.782	79.021	1.00 27.19
ATOM	2848		PHE A		4.927	37.035	78.487	1.00 26.53
MOTA	2849		PHE A		5.704	39.298	78.891	1.00 31.58
ATOM	2850	CZ	PHE A		4.663	38.404	78.626	1.00 28.23
ATOM	2851	Ŋ	THR A		10.787	34.395	80.244	1.00 14.98
ATOM	2852	CA	THR A		12.209	33.992	80.288	1.00 12.84
	2852 2853	C	THR A		12.209	32.567	79.724	1.00 12.84
ATOM								
MOTA	2854	O CP	THR A		13.562	32.031	79.682	1.00 15.98
MOTA	2855	CB	THR A		12.924	34.230	81.643	1.00 12.16
MOTA	2856		THR A		12.406	33.364	82.634	1.00 12.37
MOTA	2857	CG2	THR A	303	12.828	35.706	82.046	1.00 15.02

ATOM	2858	N	LYS A	364	11.344	31.922	79.336	1.00 15.36
ATOM	2859	CA	LYS A		11.390	30.603	78.747	1.00 12.01
ATOM	2860	C		364	11.762	30.792	77.276	1.00 15.28
ATOM	2861	ō		364	11.373	31.788	76.600	1.00 12.86
ATOM	2862	CB		364	9.988	30.005	78.770	1.00 11.05
ATOM	2863	CG		364	9.506	29.626	80.142	1.00 18.14
MOTA	2864	CD		364	8.036	29.218	80.150	1.00 16.21
ATOM	2865	CE		364	7.664	28.728	81.534	1.00 29.65
MOTA	2866	NZ	LYS A	364	6.221	28.541	81.736	1.00 39.48
ATOM	2867	N	LEU A	A 365	12.474	29.806	76.720	1.00 13.94
ATOM	2868	CA	LEU A	365	12.885	29.872	75.325	1.00 12.51
ATOM	2869	C	LEU A	A 365	11.671	29.766	74.388	1.00 18.38
ATOM	2870	0		A 365	11.491	30.548	73.436	1.00 17.81
ATOM	2871	СВ	LEU A		13.926	28.767	75.037	1.00 13.31
ATOM	2872	CG		365	14.542	28.857	73.653	1.00 18.68
	2873		LEU A		15.219	30.203	73.489	1.00 19.46
ATOM							73.545	
ATOM	2874		TEO 1		15.612	27.777		1.00 19.36
ATOM	2875	N		366	10.805	28.804	74.685	1.00 15.92
MOTA	2876	CA		366	9.534	28.572	73.964	1.00 18.17
ATOM	2877	C		366	8.411	29.193	74.832	1.00 19.02
ATOM	2878	0	VAL A	4 366	8.188	28.759	75.953	1.00 15.50
ATOM	2879	CB	VAL A	366	9.276	27.091	73.587	1.00 17.55
ATOM	2880	CG1	VAL A	366	7.985	26.938	72.761	1.00 13.93
ATOM	2881	CG2	VAL 2	366	10.488	26.522	72.828	1.00 15.55
ATOM	2882	N		367		30.226	74.348	1.00 15.38
ATOM	2883	CA		367	6.725	30.907	75.166	1.00 14.70
MOTA	2884	C		367	5.318	30.654	74.723	1.00 22.22
MOTA	2885	ō		367	5.145	30.064	73.683	1.00 21.51
		CB		367	6.946	32.396	75.034	1.00 17.48
MOTA	2886							
ATOM	2887		VAL A		8.305	32.742	75.633	1.00 17.07
MOTA	2888		VAL A		6.874	32.793	73.566	1.00 15.29
MOTA	2889	N	ASP A		4.331	31.134	75.471	1.00 17.48
ATOM	2890	CA	ASP A		2.937	30.940	75.054	1.00 16.38
MOTA	2891	C	ASP A		2.362	32.335	74.997	1.00 14.53
ATOM	2892	0	ASP A		2.198	32.991	75.998	1.00 18.37
ATOM	2893	CB	ASP A	368	2.181	30.036	76.049	1.00 17.68
MOTA	2894	CG	ASP A	368	0.683	29.999	75.796	1.00 25.53
ATOM	2895	OD1	ASP A	368	0.115	30.610	74.927	1.00 17.63
ATOM	2896	OD2	ASP A	368	0.047	29.214	76.601	1.00 31.38
ATOM	2897	N	LEU A	369	2.161	32.859	73.829	1.00 10.10
ATOM	2898	CA	LEU A	369	1.697	34.212	73.698	1.00 12.48
MOTA	2899	C	LEU A	369	0.215	34.381	73.668	1.00 18.80
ATOM	2900	0	LEU A	369	-0.276	35.378	73.147	1.00 21.46
	2901	CB	LEU A		2.274	34.974	72.500	1.00 10.77
ATOM	2902	CG	LEU A		3.779	35.129	72.552	1.00 17.85
ATOM	2903		LEU A		4.256	35.435	71.127	1.00 16.11
ATOM	2904		LEU A		4.076	36.290	73.493	1.00 16.09
ATOM	2905	N	THR A		-0.484	33.422	74.207	1.00 18.13
		CA	THR A				74.226	
ATOM	2906				-1.922	33.603		1.00 19.34
MOTA	2907	C	THR I		-2.259	34.856	75.052	1.00 24.31
MOTA	2908	0	THR A		-1.890	35.048	76.218	1.00 22.17
ATOM	2909	СВ	THR I		-2.558	32.439	74.994	1.00 31.44
ATOM	2910	OG1			-2.383	31.226	74.291	1.00 25.88
ATOM	2911		THR A		-4.020	32.785	75.234	1.00 26.93
ATOM	2912	N	ASP A	371	-3.003	35.742	74.449	1.00 22.55
MOTA	2913	CA	ASP A	371	-3.367	36.940	75.169	1.00 23.57
ATOM	2914	C	ASP A	371	-2.254	37.904	75.464	1.00 24.80
ATOM	2915	0	ASP A	371	-2.491	38.846	76.176	1.00 21.58
ATOM	2916	CB	ASP A		-4.191	36.676	76.420	1.00 26.84
MOTA	2917	CG	ASP A		~5.528	36.132	75.994	1.00 39.22
MOTA	2918		ASP A		-6.111	36.460	74.949	1.00 32.59
					0.111	20.200	1.21.72.7	2.00 32.33

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ATOM	2919		ASP			-5.951	35.237	76.850	1.00 41.05
MOTA	2920	N	ILE	A	372	-1.084	37.719	74.889	1.00 20.31
MOTA	2921	CA	ILE	Α	372	-0.009	38.663	75.120	1.00 17.55
ATOM	2922	С	ILE	Α	372	0.375	39.330	73.822	1.00 19.77
ATOM	2923	0	ILE			0.553	38.641	72.818	1.00 22.17
ATOM	2924	CB			372	1.249	37.911	75.480	1.00 20.80
ATOM	2925	CG1				1.016			1.00 20.60
							36.973	76.645	
ATOM	2926	CG2	ILE			2.392	38.904	75.707	1.00 22.69
ATOM	2927	CD1				0.374	37.712	77.794	1.00 32.92
ATOM	2928	N	ASP			0.560	40.636	73.857	1.00 14.79
ATOM	2929	CA	ASP	Α	373	0.958	41.385	72.693	1.00 14.17
MOTA	2930	C	ASP	Α	373	2.445	41.160	72.485	1.00 21.76
ATOM	2931	0	ASP	A	373	3.280	41.384	73.355	1.00 21.72
MOTA	2932	CB	ASP	А	373	0.717	42.882	72.934	1.00 15.14
MOTA	2933	CG	ASP	Α	373	1.247	43.773	71.829	1.00 21.68
MOTA	2934	OD1	ASP	А	373	2.004	43.399	70.933	1.00 23.88
MOTA	2935	OD2				0.769	45.005	71.893	1.00 22.14
MOTA	2936	N	PRO			2.810	40.719	71.305	1.00 21.82
ATOM	2937	CA	PRO			4.210	40.450	71.050	1.00 21.02
		C							
ATOM	2938				374	5.149	41.600	71.350	1.00 19.90
ATOM	2939	0	PRO			6.240	41.371	71.873	1.00 14.86
ATOM	2940	СВ	PRO			4.312	39.943	69.607	1.00 23.86
ATOM	2941	CG	PRO			2.896	39.591	69.183	1.00 24.47
MOTA	2942	CD	PRO	Α	374	1.967	40.317	70.149	1.00 22.40
MOTA	2943	N	ASP	Α	375	4.722	42.819	71.007	1.00 14.82
MOTA	2944	CA	ASP	Α	375	5.537	44.022	71.250	1.00 16.55
MOTA	2945	C	ASP	A	375	5.870	44.193	72.728	1.00 20.20
ATOM	2946	0	ASP	Α	375	6.896	44.725	73.140	1.00 19.90
ATOM	2947	CB	ASP	Α	375	4.811	45.273	70.724	1.00 15.07
ATOM	2948	CG	ASP	Α	375	4.971	45.315	69.240	1.00 18.22
ATOM	2949	OD1				5.933	44.823	68.667	1.00 18.62
ATOM	2950		ASP			3.980	45.894	68.637	1.00 21.94
ATOM	2951	N	VAL			4.952	43.710	73.532	1.00 17.46
ATOM	2952	CA	VAL			5.064	43.756	74.968	1.00 17.12
ATOM	2953	C	VAL			5.930	42.629	75.532	1.00 17.12
	2954	o	VAL						
ATOM		СВ				6.634	42.825	76.514	1.00 23.05
ATOM	2955		VAL			3.686	43.683	75.601	1.00 19.84
ATOM	2956		VAL			3.841	43.374	77.085	1.00 21.03
ATOM	2957		VAL			2.950	45.006	75.445	1.00 15.99
ATOM	2958	N	ALA			5.896	41.436	74.950	1.00 16.51
ATOM	2959	CA	ALA			6.711	40.369	75.484	1.00 15.14
ATOM	2960	С	ALA			8.136	40.459	74.987	1.00 16.36
ATOM	2961	0	ALA			9.037	39.827	75.498	1.00 13.72
MOTA	2962	CB.	ALA	A	377	6.105	39.042	75.033	1.00 14.47
MOTA	2963	N	TYR	Ą	378	8.350	41.216	73.928	1.00 15.01
MOTA	2964	CA	TYR	A	378	9.671	41.304	73.305	1.00 15.91
MOTA	2965	C	TYR	Α	378	10.864	41.502	74.222	1.00 20.25
MOTA	2966	0	TYR	Α	378	10.855	42.413	75.021	1.00 12.62
MOTA	2967	CB	TYR	A	378	9.648	42.365	72.215	1.00 15.77
ATOM	2968	CG	TYR			10.914	42.510	71.412	1.00 14.92
ATOM	2969		TYR			11.304	41.495	70.541	1.00 15.79
ATOM	2970		TYR			11.691	43.665	71.485	1.00 13.75
ATOM	2971		TYR			12.437	41.625	69.745	1.00 13.18
ATOM	2972		TYR			12.830	43.807	70.694	1.00 10.34
ATOM	2973	CZ	TYR						1.00 10.34
ATOM	2974	OH				13.206	42.783	69.828	
			TYR			14.324	42.907	69.034	1.00 17.70
ATOM	2975	N	SER			11.924	40.690	74.065	1.00 19.28
ATOM	2976	CA	SER			13.121	40.813	74.896	1.00 16.38
ATOM	2977	C	SER			14.324	40.157	74.257	1.00 16.16
MOTA	2978	0	SER			14.257	39.722	73.109	1.00 14.62
ATOM	2979	CB	SER	A	379	12.883	40.256	76.301	1.00 13.15

MOTA	2980	OG	SER A	. 379	13.035	38.846	76.268	1.00 14.44
MOTA	2981	N	SER A	. 380	15.431	40.094	75.019	1.00 13.34
MOTA	2982	CA	SBR A		16.705	39.480	74.595	1.00 13.12
MOTA	2983	С	SER A		16.734	37.989	74.811	1.00 13.76
ATOM	2984	0	SER A		17.705	37.336	74.470	1.00 15.40
MOTA	2985	CB	SER A		17.864	40.053	75.421	1.00 12.15
MOTA	2986	OG	SER A	. 380	17.883	41.443	75.162	1.00 18.31
MOTA	2987	N	VAL A	. 381	15.685	37.472	75.444	1.00 10.45
MOTA	2988	CA	VAL A		15.613	36.070	75.778	1.00 10.90
MOTA	2989	С	VAL A		15.709	35.177	74.561	1.00 15.64
MOTA	2990	0	VAL A		16.547	34.295	74.468	1.00 17.11
MOTA	2991	CB	VAL A		14.384	35.734	76.636	1.00 12.01
ATOM	2992	CG1	VAL A		14.269	34.234	76.861	1.00 12.07
MOTA	2993	CG2	VAL A	. 381	14.410	36.468	77.980	1.00 9.45
ATOM	2994	N	PRO A		14.832	35.347	73.603	1.00 12.68
ATOM	2995	CA	PRO A	. 382	14.939	34.427	72.488	1.00 11.41
MOTA	2996	С	PRO A	. 382	16.300	34.551	71.794	1.00 17.91
MOTA	2997	0	PRO A		16.830	33.564	71.249	1.00 16.29
MOTA	2998	CB	PRO A		13.817	34.802	71.513	1.00 11.39
ATOM	2999	CG	PRO A	. 382	13.328	36.176	71.947	1.00 14.03
MOTA	3000	CD	PRO A	382	13.778	36.366	73.378	1.00 10.32
ATOM	3001	N	TYR A		16.835	35.791	71.761	1.00 11.66
MOTA	3002	CA	TYR A		18.106	36.045	71.127	1.00 11.53
MOTA	3003	С	TYR A		19.229	35.291	71.821	1.00 17.48
MOTA	3004	0	TYR A		19.975	34.554	71.192	1.00 13.36
MOTA	3005	CB	TYR A		18.443	37.560	71.238	1.00 12.85
MOTA	3006	CG	TYR A		17.598	38.417	70.335	1.00 14.70
ATOM	3007	CD1			16.309	38.809	70.707	1.00 16.40
MOTA	3008	CD2	TYR A		18.069	38.790	69.073	1.00 13.38
ATOM	3009	CE1			15.536	39.577	69.832	1.00 15.57
ATOM	3010	CE2	TYR A		17.318	39.560	68.187	1.00 10.16
ATOM	3011	CZ	TYR A		16.039	39.947	68.582	1.00 14.31
ATOM	3012	OH	TYR A		15.280	40.713	67.728	1.00 12.64
ATOM	3013	N	GLU A		19.335	35.529	73.134	1.00 12.00
ATOM	3014	CA	GLU A		20.409	35.067	73.989 74.605	1.00 10.21 1.00 15.22
ATOM	3015	C 0	GLU A		20.251 21.228	33.701 32.952	74.692	1.00 13.22
MOTA MOTA	3016 3017	CB	GLU A		20.888	36.205	74.899	1.00 9.54
ATOM	3018	CG	GLU A		21.207	37.468	74.056	1.00 7.64
ATOM	3019	CD	GLU A		22.497	37.277	73.260	1.00 19.43
ATOM	3020	OE1			23.237	36.310	73.331	1.00 15.97
ATOM	3021	OE2	GLU A		22.779	38.260	72.480	1.00 11.96
ATOM	3022	N	LYS A		19.036	33.345	75.034	1.00 12.07
ATOM	3023	CA	LYS A		18.898	31.984	75.533	1.00 13.42
ATOM	3024	С	LYS A		19.015	31.052	74.294	1.00 16.08
ATOM	3025	0	LYS A		19.593	29.947	74.359	1.00 13.01
ATOM	3026	CB	LYS A	. 385	17.623	31.742	76.350	1.00 12.55
MOTA	3027	CG	LYS A	. 385	17.554	30.302	76.839	1.00 14.13
ATOM	3028	CD	LYS A	385	16.371	29.987	77.750	1.00 11.06
ATOM	3029	CE	LYS A	. 385	16.360	30.692	79.099	1.00 12.13
MOTA	3030	NZ	LYS A	. 385	15.359	30.132	80.029	1.00 11.47
MOTA	3031	N	GLY A	386	18.477	31.533	73.138	1.00 11.14
ATOM	3032	CA	GLY A		18.521	30.792	71.864	1.00 9.75
MOTA	3033	C	GLY A	. 386	19.974	30.567	71.409	1.00 16.73
MOTA	3034	0	GLY A	386	20.417	29.446	71.100	1.00 13.12
MOTA	3035	N	PHB A		20.747	31.663	71.383	1.00 15.76
MOTA	3036	CA	PHE A	387	22.155	31.620	71.013	1.00 13.70
MOTA	3037	C	PHE A		22.926	30.744	71.982	1.00 17.51
MOTA	3038	0	PHE A		23.763	29.955	71.563	1.00 14.54
MOTA	3039	CB	PHE A		22.846	32.992	70.918	1.00 13.42
MOTA	3040	CG	PHE A	387	24.350	32.820	70.816	1.00 12.26

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ATOM	3041	CD1	PHE	А	387	24.963	32.588	69.582	1.00	11.34
ATOM	3042	CD2	PHB	Α	387	25.170	32.869	71.944	1.00	14.36
MOTA	3043		PHE			26.346	32.422	69.468		12.53
ATOM	3044	CE2	PHE	A	387	26.558	32.693	71.864	1.00	12.76
ATOM	3045	CZ	PHE	Α	387	27.141	32.454	70.618	1.00	8.96
ATOM	3046	N	ALA	Δ	388	22.620	30.836	73.284		15.35
ATOM	3047	CA	ALA			23.344	30.017	74.240	1.00	12.20
ATOM	3048	С	ALA	A	388	23.084	28.552	74.014	1.00	15.51
ATOM	3049	0	ALA	Α	388	23.973	27.717	74.125	1.00	16.33
ATOM	3050	СВ	ALA			22.970	30.429	75.655		13.75
ATOM	3051	N	LEU			21.843	28.209	73.701	1.00	12.77
ATOM	3052	CA	LEU	Α	389	21.542	26.793	73.446	1.00	13.17
MOTA	3053	С	LEU	Α	389	22.382	26.286	72.266	1.00	20.08
MOTA	3054	0	LEU			23.030	25.214	72.312		16.85
MOTA	3055	CB	LEU			20.065	26.657	73.061	1.00	9.51
ATOM	3056	CG	LEU	Α	389	19.639	25.263	72.656	1.00	16.80
ATOM	3057	CD1	LEU	Α	389	20.089	24.265	73.719	1.00	16.85
MOTA	3058	CD2				18.119	25.247	72.538		12.75
ATOM	3059	N	LEU			22.374	27.059	71.172		11.37
ATOM	3060	CA	LEU	Α	390	23.140	26.650	69.998	1.00	9.78
MOTA	3061	С	LEU	Α	390	24.651	26.539	70.251	1.00	19.70
ATOM	3062	0	LEU			25.305	25.609	69.745		18.74
MOTA	3063	CB	LEU			22.887	27.525	68.764	1.00	9.94
ATOM	3064	CG	LEU	Α	390	21.402	27.590	68.367	1.00	14.32
ATOM	3065	CD1	LEU	Α	390	21.153	28.632	67.257	1.00	14.04
ATOM	3066	CD2	LEU	Α	390	20.902	26.209	67.923	1.00	14.70
ATOM	3067	N	PHE			25.205	27.490	71.026		12.66
MOTA	3068	CA	PHE			26.635	27.538	71.333		13.86
MOTA	3069	С	PHE	A	391	27.053	26.343	72.147	1.00	17.87
ATOM	3070	0	PHE	Α	391	28.104	25.733	71.983	1.00	18.52
ATOM	3071	СВ	PHE			26.964	28.806	72.105	1 00	14.47
MOTA	3072	CG	PHE			28.437	29.179	72.101		18.51
ATOM	3073	CD1	PHE	A	391	29.237	28.996	70.973	1.00	18.55
ATOM	3074	CD2	PHE	Α	391	29.030	29.748	73.233	1.00	18.59
ATOM	3075	CE1	PHE	Α	391	30.571	29.402	70.966	1.00	15.73
ATOM	3076	CE2	PHE			30.373	30.137	73.252		18.49
MOTA	3077	CZ	PHE			31.148	29.954	72.109		15.63
ATOM	3078	N	TYR	Α	392	26.148	26.008	73.039	1.00	16.91
ATOM	3079	CA	TYR	Α	392	26.315	24.893	73.944	1.00	17.78
ATOM	3080	C	TYR	Α	392	26.288	23.570	73.175	1.00	19.46
ATOM	3081	ō	TYR			27.095	22.666	73.388		18.21
MOTA	3082	CB	TYR			25.243	25.000	75.049		15.50
ATOM	3083	CG	TYR	Α	392	24.928	23.688	75.736	1.00	20.94
ATOM	3084	CD1	TYR	Α	392	25.849	23.106	76.609	1.00	24.90
ATOM	3085	CD2	TYR	Δ	392	23.715	23.034	75.528	1.00	21.37
						25.596	21.899	77.260		23.89
ATOM	3086	CE1								
ATOM	3087	CE2	TYR	A	392	23.438	21.821	76.162		24.11
ATOM	3088	CZ	TYR	Α	392	24.383	21.256	77.020	1.00	28.03
MOTA	3089	OH	TYR	Α	392	24.112	20.087	77.665	1.00	20.09
ATOM	3090	N	LEU			25.332	23.456	72.271		14.83
MOTA	3091	CA	LEU			25.210	22.267	71.440		15.47
ATOM	3092	C	LEU	Α	393	26.432	22.122	70.544	1.00	20.32
MOTA	3093	0	LEU	Α	393	26.867	21.005	70.304	1.00	21.36
ATOM	3094	СВ	LEU			23.961	22.344	70.508	1.00	16.00
ATOM	3095	CG	LEU			22.638	22.027	71.223		18.37
MOTA	3096		LEU			21.443	22.392	70.347		15.16
MOTA	3097	CD2	LEU	Α	393	22.577	20.601	71.795	1.00	17.06
ATOM	3098	N	GLU	Α	394	26.921	23.255	70.015	1.00	16.00
ATOM	3099	CA	GLU			28.104	23.298	69.160		13.58
		c	GLU			29.268	22.719	69.931		17.05
ATOM	3100									
MOTA	3101	0	GLU	A	394	30.014	21.889	69.453	1.00	15.79

ATOM	3102	СВ	GLU	Α	394	28.434	24.745	68.776	1.00 17.59
ATOM	3103	CG	GLU			29.903	24.871	68.320	1.00 23.24
ATOM	3104	CD	GLU			30.332	26.300	68.152	1.00 32.12
ATOM	3105		GLU			29.709	27.146	67.532	1.00 23.57
ATOM	3106		GLU			31.480	26.547	68.714	1.00 26.27
MOTA	3107	N	GLN			29.410	23.127	71.183	1.00 16.99
ATOM	3108	CA	GLN			30.462	22.610	72.030	1.00 17.56
ATOM	3109	C	GLN			30.293	21.127	72.360	1.00 23.89
ATOM	3110	0	GLN			31.258	20.359	72.421	1.00 24.66
ATOM	3111	CB	GLN			30.725	23.461	73.318	1.00 17.71
ATOM	3112	CG	GLN			31.195	24.888	72.918	1.00 17.45
ATOM	3113	CD	GLN			31.354	25.851	74.081	1.00 21.98
ATOM	3114		GLN			30.986	25.584	75.224	1.00 16.80
MOTA	3115	NE2				31.943	26.985	73.776	1.00 16.78
ATOM	3116	N	LEU			29.058	20.706	72.588	1.00 21.86
MOTA	3117	CA	LEU			28.767	19.330	72.932	1.00 20.27
MOTA	3118	C	LEU			28.936	18.387	71.744	1.00 22.03
MOTA	3119	0	LEU			29.381	17.260	71.857	1.00 25.07
MOTA	3120	CB	LEU			27.315	19.276	73.441	1.00 18.56
MOTA	3121	CG	LEU			26.852	17.960	73.994	1.00 22.66
MOTA	3122		LEU			27.493	17.780	75.354	1.00 25.52
MOTA	3123	CD2	LEU	Α	396	25.340	18.045	74.179	1.00 17.79
MOTA	3124	N	LEU	Α	397	28.575	18.831	70.579	1.00 15.28
MOTA	3125	CA	LEU	Α	397	28.603	17.939	69.433	1.00 16.80
MOTA	3126	C	LEU	А	397	29.846	17.946	68.565	1.00 26.85
ATOM	3127	0	LEU	А	397	29.864	17.399	67.458	1.00 29.08
MOTA	3128	CB	LEU	Α	397	27.371	18.242	68.552	1.00 15.51
MOTA	3129	CG	LEU	Α	397	26.013	18.018	69.261	1.00 20.96
MOTA	3130	CD1	LEU	Α	397	24.874	18.717	68.501	1.00 19.35
MOTA	3131	CD2	LEU	A	397	25.692	16.536	69.461	1.00 19.12
ATOM	3132	N	GLY	Α	398	30.901	18.598	68.985	1.00 24.55
ATOM	3133	CA	GLY	Α	398	32.006	18.516	68.076	1.00 27.19
ATOM	3134	C	GLY	Α	398	32.648	19.794	67.598	1.00 29.41
ATOM	3135	0	GLY	A	398	33.743	19.713	67.048	1.00 30.13
ATOM	3136	N	GLY	A	399	32.020	20.951	67.752	1.00 19.25
MOTA	3137	CA	GLY	A	399	32.700	22.143	67.291	1.00 16.50
MOTA	3138	C	GLY	Α	399	31.937	22.850	66.212	1.00 15.03
ATOM	3139	0	GLY	A	399	30.976	22.315	65.694	1.00 17.49
MOTA	3140	N	PRO	A	400	32.397	24.045	65.870	1.00 21.52
MOTA	3141	CA	PRO	Α	400	31.758	24.918	64.909	1.00 21.69
ATOM	3142	C	PRO	Α	400	31.599	24.312	63.552	1.00 29.85
ATOM	3143	0	PRO	Α	400	30.540	24.433	62.921	1.00 24.28
MOTA	3144	CB	PRO	Α	400	32.574	26.210	64.802	1.00 21.33
ATOM	3145	CG	PRO	Α	400	33.868	25.949	65.552	1.00 27.07
MOTA	3146	CD	PRO	Α	400	33.698	24.635	66.306	1.00 25.67
ATOM	3147	N	GLU	Α	401	32.679	23.674	63.128	1.00 28.84
MOTA	3148	CA	GLU	Α	401	32.630	23.048	61.831	1.00 30.42
ATOM	3149	C	GLU	Α	401	31.491	22.055	61.764	1.00 22.63
MOTA	3150	0	GLU	Α	401	30.664	22.034	60.872	1.00 21.35
MOTA	3151	CB	GLU	Α	401	33.915	22.247	61.648	1.00 35.39
ATOM	3152	CG	GLU			35.125	23.160	61.445	1.00 70.34
ATOM	3153	CD	GLU			35.978	22.574	60.355	1.00100.00
ATOM	3154		GLU			35.711	21.486	59.851	1.00100.00
ATOM	3155		GLU			37.013	23.329	60.026	1.00100.00
ATOM	3156	N	ILE			31.484	21.185	62.731	1.00 20.44
ATOM	3157	CA	ILE			30.481	20.165	62.766	1.00 21.27
ATOM	3158	C	ILE			29.082	20.761	62.895	1.00 26.84
ATOM	3159	ō	ILE			28.142	20.366	62.199	1.00 18.68
ATOM	3160	CB	ILE			30.819	19.218	63.904	1.00 24.03
ATOM	3161		ILE			31.974	18.299	63.503	1.00 23.45
MOTA	3162	CG2				29.587	18.421	64.334	1.00 28.69

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MOTA	3224	CB	TYR			18.973	22.980	59.910	1.00 19.89
MOTA	3225	CG	TYR	Α	410	17.947	23.924	60.516	1.00 20.57
ATOM	3226	CD1	TYR	Α	410	16.715	23.463	60.981	1.00 22.20
MOTA	3227	CD2	TYR	Α	410	18.219	25.286	60.649	1.00 21.16
ATOM	3228	CE1	TYR			15.767	24.320	61.551	1.00 17.85
ATOM	3229	CE2	TYR			17.289			1.00 17.83
							26.163	61.213	
MOTA	3230	CZ	TYR			16.064	25.679	61.682	1.00 25.33
MOTA	3231	ОН	TYR	A	410	15.182	26.528	62.315	1.00 20.84
MOTA	3232	N	VAL	Α	411	18.809	24.459	57.147	1.00 17.01
MOTA	3233	CA	VAL	Α	411	18.378	25.520	56.254	1.00 20.36
MOTA	3234	C	VAL	A	411	17.876	24.946	54.936	1.00 25.04
ATOM	3235	0	VAL			16.859	25.377	54.394	1.00 22.50
ATOM	3236	СВ	VAL			19.533	26.493	55.937	1.00 24.82
ATOM	3237		VAL					54.724	
						19.220	27.380		1.00 21.10
ATOM	3238	CG2	VAL			19.920	27.333	57.163	1.00 25.82
MOTA	3239	N	GLU			18.616	23.952	54.443	1.00 24.87
ATOM	3240	CA	GLU			18.264	23.283	53.202	1.00 24.91
MOTA	3241	C	GLU	Α	412	16.960	22.532	53.366	1.00 24.56
ATOM	3242	0	GLU	A	412	16.045	22.612	52.555	1.00 26.86
MOTA	3243	CB	GLU	Α	412	19.330	22.211	52.913	1.00 28.91
MOTA	3244	CG	GLU			20.206	22.405	51.660	1.00 51.34
ATOM	3245	CD	GLU			21.671	22.089	51.908	1.00100.00
ATOM		OE1					22.331		
	3246					22.243		52.963	1.00100.00
MOTA	3247	OE2	GLU			22.274	21.541	50.874	1.00100.00
MOTA	3248	N	LYS			16.909	21.757	54.442	1.00 19.78
MOTA	3249	CA	LYS			15.755	20.940	54.747	1.00 15.53
ATOM	3250	C	LYS	A	413	14.484	21.718	54.892	1.00 22.00
MOTA	3251	0	LYS	Α	413	13.464	21.272	54.409	1.00 23.41
MOTA	3252	CB	LYS	Α	413	16.020	20.156	56.008	1.00 17.04
MOTA	3253	CG	LYS	Α	413	14.754	19.602	56.629	1.00 26.97
ATOM	3254	CD	LYS	Α	413	14.225	18.351	55.955	1.00 37.17
ATOM	3255	CE	LYS	Α	413	13.553	17.352	56.893	1.00 56.50
ATOM	3256	NZ	LYS	А	413	13.126	16.109	56.223	1.00 80.78
MOTA	3257	N	PHE			14.543	22.888	55.532	1.00 19.76
ATOM	3258	CA	PHE			13.366	23.700	55.808	1.00 17.00
ATOM	3259	C	PHE			13.192	24.945	54.985	1.00 21.55
ATOM	3260	0	PHE			12.329	25.748	55.303	1.00 17.11
ATOM	3261	CB	PHE			13.219	24.035	57.303	1.00 17.11
							22.800		
MOTA	3262	CG	PHE			13.047		58.122	1.00 15.55
MOTA	3263		PHE			11.894	22.029	57.979	1.00 19.53
ATOM	3264	CD2	PHE			14.024	22.368	59.015	1.00 20.06
ATOM	3265		PHE			11.709	20.868	58.729	1.00 18.22
MOTA	3266		PHE			13.861	21.205	59.771	1.00 21.10
ATOM	3267	CZ ·	PHE	A	414	12.695	20.456	59.627	1.00 19.80
MOTA	3268	N	SER	Α	415	13.972	25.111	53.928	1.00 22.05
MOTA	3269	CA	SER	A	415	13.807	26.273	53.044	1.00 23.12
ATOM	3270	С	SER	A	415	12.380	26.434	52.548	1.00 23.50
MOTA	3271	0	SER	Α	415	11.775	25.451	52.138	1.00 22.71
ATOM	3272	CB	SER			14.763	26.214	51.858	1.00 23.04
ATOM	3273	OG	SER			16.054	26.591	52.319	1.00 31.15
ATOM	3274	N	TYR			11.860	27.670	52.600	1.00 21.68
	3275	CA	TYR			10.506	28.036	52.165	1.00 22.03
ATOM									
ATOM	3276	C	TYR			9.401	27.514	53.056	1.00 22.90
MOTA	3277	0	TYR			8.239	27.556	52.681	1.00 19.44
ATOM	3278	CB	TYR			10.181	27.732	50.669	1.00 21.41
ATOM	3279	CG	TYR			11.390	28.011	49.812	1.00 21.01
MOTA	3280		TYR			12.232	27.003	49.339	1.00 22.57
MOTA	3281		TYR			11.686	29.339	49.509	1.00 20.93
MOTA	3282	CE1	TYR	A	416	13.354	27.305	48.566	1.00 19.33
ATOM	3283	CE2	TYR	A	416	12.792	29.665	48.729	1.00 23.16
ATOM	3284	CZ	TYR	Α	416	13.628	28.643	48.271	1.00 32.30

MOTA	3285	OH	TYR I	416	14.715	28.959	47.491	1.00 25.33
ATOM	3286	N	LYS A	417	9.747	27.012	54.230	1.00 21.98
MOTA	3287	CA		417	8.749	26.482	55.127	1.00 20.82
ATOM	3288	C		417	8.702	27.284	56.408	1.00 20.61
MOTA	3289	0		417	9.629	28.038	56.671	1.00 18.79
ATOM	3290	СВ		417	9.115	25.041	55.481	1.00 22.26
ATOM	3291	CG		417	9.094	24.078	54.266	1.00 29.52
ATOM	3292	CD		417	7.999	24.355	53.237	1.00 72.37
ATOM	3293	CE		417	8.204	23.679	51.876	1.00100.00
ATOM	3294	NZ		417	7.124	23.931	50.895	1.00100.00
ATOM	3295	N		418	7.645	27.068	57.177	1.00 17.88
ATOM	3296	CA		418	7.429	27.702	58.478	1.00 19.91
ATOM	3297	C		418	7.410	26.538	59.459	1.00 23.93
MOTA	3298	0		418	6.660	25.601	59.227	1.00 21.09
ATOM	3299	CB		418	6.139	28.495	58.451	1.00 12.45
ATOM	3300	OG	SER A		6.279	29.520	57.494	1.00 17.15
MOTA	3301	N		419	8.240	26.529	60.516	1.00 14.38
MOTA	3302	CA		419	8.323	25.353	61.382	1.00 12.23
MOTA	3303	C		419	8.330	25.695	62.841	1.00 16.49
MOTA	3304	0		419	8.334	26.875	63.219	1.00 14.48
MOTA	3305	CB	ILE A	419	9.662	24.641	61.097	1.00 18.50
MOTA	3306	CG1	ILE A	419	10.782	25.649	61.392	1.00 18.34
ATOM	3307	CG2	ILE A	419	9.782	24.271	59.611	1.00 14.45
ATOM	3308	CD1	ILE A	419	12.163	25.028	61.473	1.00 22.79
MOTA	3309	N	THR A	420	8.320	24.635	63.644	1.00 16.31
MOTA	3310	CA	THR A	420	8.281	24.810	65.083	1.00 14.71
ATOM	3311	C	THR A	420	9.545	24.290	65.714	1.00 16.25
MOTA	3312	0	THR F	420	10.346	23.636	65.077	1.00 17.31
ATOM	3313	CB	THR A	420	7.118	24.004	65.697	1.00 17.59
MOTA	3314	OG1	THR F	420	7.437	22.645	65.519	1.00 17.59
ATOM	3315	CG2	THR A	420	5.794	24.260	65.010	1.00 16.45
MOTA	3316	N	THR A		9.679	24.540	67.010	1.00 15.19
ATOM	3317	CA	THR A		10.782	24.047	67.818	1.00 15.49
MOTA	3318	С	THR F		10.930	22.520	67.618	1.00 21.17
ATOM	3319	0	THR A		12.041	22.044	67.401	1.00 18.91
MOTA	3320	CB	THR A		10.564	24.437	69.309	1.00 10.87
ATOM	3321	OG1	THR A		10.618	25.851	69.383	1.00 15.99
MOTA	3322	CG2	THR A		11.691	23.868	70.170	1.00 11.46
ATOM	3323	N	ASP A		9.829	21.736	67.673	1.00 18.70
MOTA	3324	CA	ASP P		9.885	20.262	67.467	1.00 16.03
ATOM	3325	C	ASP A		10.469	19.867	66.107	1.00 16.08
MOTA	3326	0	ASP A		11.273	18.932	65.958	1.00 16.68
ATOM	3327	CB	ASP A		8.523	19.568	67.581	1.00 16.64
MOTA	3328	CG	ASP A			18.079	67.574	
ATOM	3329		ASP A		9.568		68.286	
MOTA	3330		ASP A		7.924	17.366	66.787	1.00 23.32
ATOM	3331	N	ASP A		10.069	20.575	65.060	1.00 17.50
MOTA	3332	CA	ASP A		10.654	20.224	63.757	1.00 18.18
ATOM	3333	C	ASP A		12.148	20.442	63.826	1.00 17.70
ATOM	3334	ō	ASP A		12.922	19.645	63.316	1.00 15.95
ATOM	3335	СВ	ASP A		10.099	21.075	62.613	1.00 17.77
ATOM	3336	CG	ASP A		8.614	20.972	62.510	1.00 17.77
ATOM	3337		ASP A		8.042	19.936	62.718	1.00 20.31
ATOM	3338		ASP A		8.016	22.095	62.716	1.00 29.77
ATOM	3339	N	TRP A		12.559	21.545	64.459	1.00 12.60
ATOM	3340	CA	TRP A		13.979	21.793	64.555	1.00 12.60
	3341	CA	TRP A		14.690	20.684	65.330	1.00 14.79
ATOM		0	TRP A		15.731	20.684		
ATOM	3342		TRP A				64.939	1.00 16.84
ATOM	3343	CB			14.187	23.134	65.283	1.00 14.84
ATOM	3344	CG	TRP A		15.603	23.332	65.711	1.00 13.71
ATOM	3345	CD1	TRP A	424	16.594	23.830	64.937	1.00 15.42

MOTA	3346	CD2	TRP	-		16.185	23.060	67.002	1.00 13.68
MOTA	3347	NE1				17.765	23.853	65.640	1.00 14.21
MOTA	3348	CE2	TRP	A	424	17.558	23.383	66.909	1.00 13.75
MOTA	3349	CE3	TRP	Α	424	15.684	22.576	68.210	1.00 16.53
ATOM	3350	CZ2	TRP	Α	424	18.436	23.247	67.983	1.00 13.89
MOTA	3351	CZ3	TRP	Α	424	16.564	22.434	69.288	1.00 16.24
ATOM	3352	CH2	TRP	Α	424	17.919	22.786	69.175	1.00 15.55
MOTA	3353	N	LYS			14.139	20.328	66.480	1.00 13.83
ATOM	3354	CA	LYS			14.778	19.337	67.319	1.00 14.35
ATOM	3355	C	LYS			14.705	17.914	66.753	1.00 19.43
			LYS			15.619		66.910	1.00 16.20
ATOM	3356	0					17.089		
MOTA	3357	CB	LYS	_		14.262	19.441	68.735	1.00 13.53
MOTA	3358	CG	LYS			14.912	18.488	69.720	1.00 14.17
MOTA	3359	CD	LYS			14.289	18.698	71.085	1.00 14.61
MOTA	3360	CE	LYS			14.214	17.413	71.872	1.00 33.75
MOTA	3361	NZ	LYS	Α	425	12.961	16.707	71.574	1.00 28.69
MOTA	3362	N	ASP	Α	426	13.591	17.633	66.093	1.00 17.34
MOTA	3363	CA	ASP	Α	426	13.430	16.341	65.480	1.00 15.98
MOTA	3364	С	ASP	A	426	14.524	16.256	64.383	1.00 23.28
ATOM	3365	0	ASP	Α	426	15.177	15.246	64.128	1.00 25.50
ATOM	3366	CB	ASP	A	426	11.987	16.225	64.918	1.00 13.29
ATOM	3367	CG	ASP			10.984	15.900	65.989	1.00 14.86
ATOM	3368		ASP			11.296	15.712	67.147	1.00 19.08
ATOM	3369		ASP			9.746	15.852	65.579	1.00 18.33
ATOM	3370	N			427	14.770	17.354	63.684	1.00 20.60
		CA			427	15.789	17.331	62.633	1.00 20.61
ATOM	3371								1.00 26.34
ATOM	3372	C			427	17.203	17.172	63.165	
ATOM	3373	0			427	18.056	16.476	62.592	1.00 22.98
MOTA	3374	CB	PHE			15.712	18.535	61.679	1.00 20.77
MOTA	3375	CG			427	16.772	18.432	60.611	1.00 24.06
MOTA	3376		PHE			16.747	17.398	59.674	1.00 27.11
MOTA	3377		PHE			17.815	19.355	60.549	1.00 24.52
ATOM	3378		PHE			17.726	17.312	58.685	1.00 27.68
ATOM	3379		PHE			18.801	19.284	59.565	1.00 28.65
MOTA	3380	CZ	PHE	Α	427	18.756	18.254	58.629	1.00 24.74
MOTA	3381	N	LEU	Α	428	17.417	17.848	64.291	1.00 22.50
MOTA	3382	CA	LEU	A	428	18.686	17.827	64.979	1.00 24.10
MOTA	3383	C	LEU	A	428	19.053	16.391	65.339	1.00 22.01
MOTA	3384	0	LEU	A	428	20.183	15.960	65.123	1.00 23.99
MOTA	3385	CB	LEU	A	428	18.685	18.806	66.186	1.00 23.18
ATOM	3386	CG	LEU	A	428	19.949	18.790	67.054	1.00 26.21
ATOM	3387	CD1	LEU	A	428	21.120	19.538	66.421	1.00 25.09
ATOM	3388	CD2	LEU	A	428	19.659	19.334	68.459	1.00 21.07
MOTA	3389	N	TYR	Α	429	18.087	15.650	65.866	1.00 16.35
MOTA	3390	CA	TYR	A	429	18.278	14.259	66.241	1.00 15.82
ATOM	3391	C			429	18.482	13.390	65.019	1.00 20.80
ATOM	3392	0			429	19.216	12.416	64.997	1.00 21.02
ATOM	3393	CB			429	17.037	13.759	66.940	1.00 14.93
ATOM	3394	CG			429	17.232	13.841	68.426	1.00 19.52
MOTA	3395		TYR			16.999	15.039	69.104	1.00 18.07
ATOM	3396		TYR			17.667	12.710	69.121	1.00 17.20
			TYR			17.183	15.108	70.484	1.00 14.78
ATOM	3397						12.752	70.496	1.00 15.85
ATOM	3398		TYR			17.850			1.00 26.56
ATOM	3399	CZ			429	17.615	13.961	71.157	
MOTA	3400	OH			429	17.807	14.009	72.508	1.00 23.93
ATOM	3401	N			430	17.839	13.785	63.955	1.00 18.00
MOTA	3402	CA			430	17.986	13.048	62.735	1.00 20.34
ATOM	3403	C			430	19.392	13.282	62.136	1.00 28.86
ATOM	3404	0			430	20.133	12.347	61.797	1.00 25.84
MOTA	3405	CB			430	16.843	13.486	61.845	1.00 19.64
ATOM	3406	OG	SER	A	430	16.960	12.766	60.657	1.00 32.88

ATOM	3407	N	TYR	7.	121	19.792	14.556	62.021	1.00 23.08
MOTA	3408	CA	TYR			21.104	14.862	61.497	1.00 23.26
ATOM	3409	C	TYR	Α	431	22.209	14.166	62.288	1.00 31.19
ATOM	3410	0	TYR	Α	431	23.152	13.580	61.747	1.00 27.84
ATOM	3411	СВ	TYR			21.392	16.372	61.476	1.00 22.23
MOTA	3412	CG	TYR	A	431	22.660	16.758	60.741	1.00 23.21
MOTA	3413	CD1	TYR	Α	431	22.665	16.994	59.365	1.00 26.21
ATOM	3414	CD2	TYR	Δ	431	23.864	16.920	61.433	1.00 28.30
			TYR				17.354	58.692	
ATOM	3415	CE1				23.836			1.00 33.33
ATOM	3416	CE2	TYR			25.045	17.277	60.777	1.00 29.03
MOTA	3417	cz	TYR	A	431	25.032	17.498	59.401	1.00 33.73
ATOM	3418	OH	TYR	Δ	431	26.201	17.881	58.802	1.00 30.59
ATOM	3419	N	PHE			22.078	14.272	63.608	1.00 23.42
MOTA	3420	CA	PHE	A	432	23.039	13.735	64.556	1.00 22.14
ATOM	3421	С	PHE	Α	432	22.659	12.334	65.001	1.00 27.48
MOTA	3422	0	PHE	Δ	432	22.824	11.964	66.168	1.00 20.81
			PHE				14.715	65.751	1.00 20.76
MOTA	3423	CB				23.211			
MOTA	3424	CG	PHE			24.035	15.918	65.348	1.00 21.62
MOTA	3425	CD1	PHE	Α	432	25.364	15.674	65.025	1.00 25.75
ATOM	3426	CD2	PHE	A	432	23.566	17.232	65.250	1.00 22.01
			PHE			26.202	16.708	64.619	1.00 26.06
ATOM	3427								
ATOM	3428	CE2	PHE			24.398	18.277	64.841	1.00 24.06
ATOM	3429	CZ	PHE	Α	432	25.732	18.014	64.539	1.00 22.97
ATOM	3430	N	LYS	Δ	433	22.150	11.536	64.065	1.00 30.29
MOTA	3431	CA	LYS			21.757	10.205	64.480	1.00 33.97
ATOM	3432	C	LYS			22.886	9.408	65.113	1.00 40.77
ATOM	3433	0	LYS	Α	433	22.690	8.545	65.964	1.00 45.44
ATOM	3434	CB	LYS	A	433	21.017	9.429	63.418	1.00 41.36
ATOM	3435	CG	LYS	Δ	433	21.934	9.107	62.270	1.00 42.12
						21.340	9.569	60.951	1.00 85.11
ATOM	3436	CD	LYS						
ATOM	3437	CE	LYS	A	433	21.770	8.690	59.784	1.00100.00
ATOM	3438	NZ	LYS	Α	433	21.052	8.990	58.530	1.00100.00
ATOM	3439	N	ASP	Α	434	24.091	9.729	64.700	1.00 38.33
ATOM	3440	CA	ASP			25.295	9.086	65.188	1.00 40.98
ATOM	3441	C	ASP			25.640	9.549	66.594	1.00 42.43
MOTA	3442	0	ASP	A.	434	26.508	8.979	67.241	1.00 42.35
ATOM	3443	СВ	ASP	A	434	26.493	9.429	64.250	1.00 47.81
MOTA	3444	CG	ASP .	A	434	26.762	10.919	64.034	1.00 73.28
MOTA	3445		ASP			25.948	11.739	63.601	1.00 69.11
ATOM	3446		ASP			28.007	11.242	64.314	1.00 80.38
MOTA	3447	N	LYS .			24.987	10.601	67.068	1.00 33.72
ATOM	3448	CA	LYS	A	435	25.312	11.120	68.374	1.00 30.49
ATOM	3449	C	LYS .			24.122	11.247	69.306	1.00 32.57
ATOM	3450	ō	LYS			24.181	12.067	70.217	1.00 29.28
ATOM	3451	CB	LYS				12.465		1.00 30.20
ATOM	3452	CG	LYS	A ·	435	27.396	12.351	67.568	1.00 19.40
ATOM	3453	CD	LYS	A ·	435	27.984	13.718	67.237	1.00 28.53
MOTA							,,		
		CE	LYS	Δ.	435	29.504			
	3454	CE	LYS .			29.504	13.723	67.224	1.00 36.05
MOTA	3454 3455	NZ	LYS	A	435	30.078	13.723 14.696	67.224 66.281	1.00 36.05 1.00 38.07
	3454		LYS . VAL	A A	435 436	30.078 23.063	13.723 14.696 10.467	67.224 66.281 69.083	1.00 36.05
MOTA	3454 3455	NZ	LYS	A A	435 436	30.078 23.063	13.723 14.696	67.224 66.281	1.00 36.05 1.00 38.07
MOTA MOTA MOTA	3454 3455 3456 3457	NZ N CA	LYS VAL VAL	A A A	435 436 436	30.078 23.063 21.867	13.723 14.696 10.467 10.565	67.224 66.281 69.083 69.920	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68
ATOM ATOM ATOM ATOM	3454 3455 3456 3457 3458	NZ N CA C	LYS VAL VAL VAL	A A A	435 436 436 436	30.078 23.063 21.867 22.189	13.723 14.696 10.467 10.565 10.528	67.224 66.281 69.083 69.920 71.391	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39
ATOM ATOM ATOM ATOM ATOM	3454 3455 3456 3457 3458 3459	NZ N CA C	LYS VAL VAL VAL	A A A A	435 436 436 436 436	30.078 23.063 21.867 22.189 21.544	13.723 14.696 10.467 10.565 10.528 11.154	67.224 66.281 69.083 69.920 71.391 72.236	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16
MOTA MOTA MOTA MOTA MOTA MOTA	3454 3455 3456 3457 3458 3459 3460	NZ N CA C O CB	LYS VAL VAL VAL VAL	A A A A	435 436 436 436 436 436	30.078 23.063 21.867 22.189 21.544 20.768	13.723 14.696 10.467 10.565 10.528 11.154 9.553	67.224 66.281 69.083 69.920 71.391 72.236 69.613	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16 1.00 44.95
ATOM ATOM ATOM ATOM ATOM	3454 3455 3456 3457 3458 3459	NZ N CA C O CB	LYS VAL VAL VAL	A A A A	435 436 436 436 436 436	30.078 23.063 21.867 22.189 21.544	13.723 14.696 10.467 10.565 10.528 11.154	67.224 66.281 69.083 69.920 71.391 72.236	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16
MOTA MOTA MOTA MOTA MOTA MOTA MOTA	3454 3455 3456 3457 3458 3459 3460	NZ N CA C O CB CG1	LYS VAL VAL VAL VAL	A A A A A	435 436 436 436 436 436 436	30.078 23.063 21.867 22.189 21.544 20.768 20.016	13.723 14.696 10.467 10.565 10.528 11.154 9.553	67.224 66.281 69.083 69.920 71.391 72.236 69.613	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16 1.00 44.95
MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	3454 3455 3456 3457 3458 3459 3460 3461 3462	NZ N CA C O CB CG1 CG2	LYS VAL VAL VAL VAL VAL VAL	A A A A A A	435 436 436 436 436 436 436 436	30.078 23.063 21.867 22.189 21.544 20.768 20.016 21.391	13.723 14.696 10.467 10.565 10.528 11.154 9.553 9.971 8.187	67.224 66.281 69.083 69.920 71.391 72.236 69.613 68.355 69.405	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16 1.00 44.95 1.00 45.77
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3454 3455 3456 3457 3458 3459 3460 3461 3462 3463	NZ N CA C O CB CG1 CG2 N	LYS VAL VAL VAL VAL VAL VAL VAL ASP	A A A A A A A	435 436 436 436 436 436 436 436 437	30.078 23.063 21.867 22.189 21.544 20.768 20.016 21.391 23.205	13.723 14.696 10.467 10.565 10.528 11.154 9.553 9.971 8.187 9.740	67.224 66.281 69.083 69.920 71.391 72.236 69.613 68.355 69.405 71.670	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16 1.00 44.95 1.00 45.77 1.00 48.21 1.00 40.66
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3454 3455 3456 3457 3458 3459 3460 3461 3462 3463 3464	NZ N CA C O CB CG1 CG2 N CA	LYS VAL VAL VAL VAL VAL VAL VAL ASP ASP	A A A A A A A A	435 436 436 436 436 436 436 437	30.078 23.063 21.867 22.189 21.544 20.768 20.016 21.391 23.205 23.663	13.723 14.696 10.467 10.565 10.528 11.154 9.553 9.971 8.187 9.740 9.569	67.224 66.281 69.083 69.920 71.391 72.236 69.613 68.355 69.405 71.670 73.019	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16 1.00 44.95 1.00 45.77 1.00 48.21 1.00 40.66 1.00 39.64
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3454 3455 3456 3457 3458 3459 3460 3461 3462 3463	NZ N CA C O CB CG1 CG2 N	LYS VAL VAL VAL VAL VAL VAL ASP ASP	A A A A A A A A A	435 436 436 436 436 436 436 437 437	30.078 23.063 21.867 22.189 21.544 20.768 20.016 21.391 23.205 23.663 24.119	13.723 14.696 10.467 10.565 10.528 11.154 9.553 9.971 8.187 9.740	67.224 66.281 69.083 69.920 71.391 72.236 69.613 68.355 69.405 71.670 73.019 73.622	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16 1.00 44.95 1.00 45.77 1.00 48.21 1.00 40.66 1.00 39.64 1.00 35.59
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3454 3455 3456 3457 3458 3459 3460 3461 3462 3463 3464	NZ N CA C O CB CG1 CG2 N CA	LYS VAL VAL VAL VAL VAL VAL VAL ASP ASP	A A A A A A A A A	435 436 436 436 436 436 436 437 437	30.078 23.063 21.867 22.189 21.544 20.768 20.016 21.391 23.205 23.663	13.723 14.696 10.467 10.565 10.528 11.154 9.553 9.971 8.187 9.740 9.569	67.224 66.281 69.083 69.920 71.391 72.236 69.613 68.355 69.405 71.670 73.019	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16 1.00 44.95 1.00 45.77 1.00 48.21 1.00 40.66 1.00 39.64
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3454 3455 3456 3457 3458 3459 3460 3461 3462 3463 3464 3465	NZ N CA C O CB CG1 CG2 N CA C	LYS VAL VAL VAL VAL VAL VAL ASP ASP	A A A A A A A A A	435 436 436 436 436 436 436 437 437 437	30.078 23.063 21.867 22.189 21.544 20.768 20.016 21.391 23.205 23.663 24.119	13.723 14.696 10.467 10.565 10.528 11.154 9.553 9.971 8.187 9.740 9.569 10.875	67.224 66.281 69.083 69.920 71.391 72.236 69.613 68.355 69.405 71.670 73.019 73.622	1.00 36.05 1.00 38.07 1.00 32.65 1.00 36.68 1.00 39.39 1.00 34.16 1.00 44.95 1.00 45.77 1.00 48.21 1.00 40.66 1.00 39.64 1.00 35.59

ATOM	3468	CG	ASP	A	437	23.976	7.123	73.303	1.00 64.05
MOTA	3469	OD1	ASP	A	437	22.749	7.018	73.361	1.00 57.77
MOTA	3470	OD2	ASP	Α	437	24.825	6.121	73.385	1.00 89.95
ATOM	3471	N	VAL	Α	438	24.778	11.697	72.826	1.00 33.10
ATOM	3472	CA	VAL	Α	438	25.235	12.988	73.309	1.00 31.59
ATOM	3473	C			438	24.012	13.879	73.521	1.00 28.65
ATOM	3474	0			438	23.828	14.461	74.571	1.00 26.75
ATOM	3475	CB			438	26.289	13.599	72.371	1.00 30.58
MOTA	3476		VAL			26.809	14.928	72.920	1.00 27.87
MOTA		CG2	VAL						
	3477					27.441	12.608	72.226	1.00 29.01
MOTA	3478	N			439	23.179	13.926	72.494	1.00 22.69
ATOM	3479	CA			439	21.952	14.698	72.466	1.00 20.02
ATOM	3480	С			439	21.118	14.396	73.675	1.00 28.06
MOTA	3481	0			439	20.547	15.279	74.289	1.00 31.30
MOTA	3482	CB	<b>LEO</b>	A	439	21.125	14.403	71.201	1.00 17.24
ATOM	3483	CG	LEU	A	439	21.769	15.002	69.960	1.00 19.41
ATOM	3484	CD1	LEU	A	439	21.029	14.542	68.724	1.00 16.82
MOTA	3485	CD2	LEU	Α	439	21.748	16.528	70.034	1.00 23.96
MOTA	3486	N	ASN	À	440	21.045	13.129	74.022	1.00 24.23
ATOM	3487	CA	ASN			20.242	12.765	75.165	1.00 24.80
ATOM	3488	C			440	20.785	13.294	76.473	1.00 29.26
ATOM	3489	o			440	20.128	13.233	77.507	1.00 31.02
MOTA	3490	CB			440	19.842		75.237	1.00 28.06
MOTA	3491	CG			440	18.971	10.884	74.066	1.00 29.31
ATOM	3492		ASN			19.138	9.820	73.451	1.00 40.12
ATOM	3493	ND2				18.058	11.773	73.721	1.00 28.40
ATOM	3494	N			441	21.984	13.833	76.434	1.00 26.30
MOTA	3495	CA	GLN	Α	441	22.535	14.361	77.656	1.00 27.26
ATOM	3496	C	GLN	A	441	22.022	15.764	77.912	1.00 26.46
MOTA	3497	0	GLN	Α	441	22.203	16.336	78.988	1.00 25.27
ATOM	3498	CB	GLN	А	441	24.073	14.404	77.609	1.00 32.14
MOTA	3499	CG	GLN	Α	441	24.762	13.016	77.641	1.00 49.60
MOTA	3500	CD	${\tt GLN}$	A	441	26.057	13.019	76.850	1.00 66.63
MOTA	3501	OE1	${\tt GLN}$	A	441	26.546	11.975	76.382	1.00 76.27
ATOM	3502	NE2	GLN	Α	441	26.608	14.217	76.676	1.00 56.68
ATOM	3503	N	VAL	A	442	21.388	16.345	76.909	1.00 21.59
MOTA	3504	CA	VAL	Α	442	20.922	17.688	77.159	1.00 18.91
ATOM	3505	C	VAL	Α	442	19.615	17.729	77.897	1.00 19.52
ATOM	3506	0	VAL			18.742	16.908	77.650	1.00 21.02
ATOM	3507	CB	VAL			20.898	18.538	75.917	1.00 19.77
ATOM	3508		VAL			21.472	17.891	74.680	1.00 23.00
ATOM	3509		VAL			19.787	19.580	75.787	1.00 13.26
MOTA	3510	N	ASP			19.490	18.677	78.811	1.00 17.20
ATOM	3511	CA	ASP			18.243	18.856	79.551	1.00 17.20
ATOM	3512	C	ASP			17.277	19.752	78.727	1.00 17.64
ATOM	3513	0	ASP	_		17.091	20.980	78.921	
	3514	CB	ASP			18.611		80.901	1.00 15.06
ATOM							19.494		1.00 17.40
MOTA	3515	CG	ASP			17.422	19.595	81.778	1.00 21.50
ATOM	3516		ASP			16.309	19.286	81.395	1.00 26.57
ATOM	3517		ASP			17.731	20.068	82.959	1.00 23.49
ATOM	3518	N			444	16.675	19.105	77.736	1.00 15.54
MOTA	3519	CA	TRP			15.763	19.759	76.816	1.00 16.92
MOTA	3520	С	TRP			14.641	20.468	77.546	1.00 19.29
MOTA	3521	0	TRP			14.292	21.572	77.194	1.00 18.00
MOTA	3522	CB	TRP	A	444	15.195	18.747	75.793	1.00 13.71
MOTA	3523	CG	TRP	Α	444	16.267	18.226	74.892	1.00 14.88
MOTA	3524	CD1	TRP	A	444	16.797	16.969	74.872	1.00 17.32
MOTA	3525	CD2	TRP			16.952	18.958	73.861	1.00 16.34
MOTA	3526	NE1				17.779	16.869	73.915	1.00 14.83
MOTA	3527	CE2				17.880	18.063	73.255	1.00 16.96
MOTA	3528	CE3	TRP			16.896	20.295	73.415	1.00 17.06

MOTA	3529	CZ2	TRP	Α	444	18.737	18.482	72.229	1.00 16.95
ATOM	3530	CZ3	TRP	Α	444	17.750	20.697	72.382	1.00 16.35
MOTA	3531	CH2	TRP	Α	444	18.664	19.807	71.806	1.00 16.47
ATOM	3532	N	ASN	Α	445	14.059	19.808	78.557	1.00 18.46
MOTA	3533	CA			445	12.957	20.414	79.260	1.00 17.22
		C	ASN			13.334			1.00 20.45
ATOM	3534						21.761	79.837	
ATOM	3535	0			445	12.581	22.732	79.740	1.00 17.51
MOTA	3536	CB	asn			12.347	19.512	80.357	1.00 15.11
ATOM	3537	CG	asn	Α	445	11.322	20.272	81.234	1.00 46.40
MOTA	3538	OD1	ASN	Α	445	11.526	20.515	82.448	1.00 39.99
MOTA	3539	ND2	ASN	Α	445	10.198	20.671	80.643	1.00 26.34
ATOM	3540	N	ALA	A	446	14.504	21.791	80.484	1.00 18.70
ATOM	3541	CA	ALA	Α	446	14.918	23.022	81.091	1.00 16.75
ATOM	3542	С			446	15.272	24.029	80.032	1.00 21.46
ATOM	3543	ō	ALA			14.765	25.172	80.030	1.00 20.55
		CB	ALA			16.049	22.774	82.055	1.00 19.42
ATOM	3544								
ATOM	3545	N	TRP			16.116	23.605	79.097	1.00 16.36
ATOM	3546	CA	TRP			16.476	24.563	78.054	1.00 14.85
ATOM	3547	C	TRP			15.277	25.163	77.279	1.00 18.68
ATOM	3548	0	TRP	Α	447	15.246	26.365	76.985	1.00 14.03
ATOM	3549	CB	TRP	A	447	17.473	23.938	77.040	1.00 17.25
MOTA	3550	CG	TRP	Α	447	18.952	23.982	77.391	1.00 19.35
ATOM	3551	CD1	TRP	Α	447	19.697	22.957	77.930	1.00 22.25
MOTA	3552	CD2	TRP	Α	447	19.864	25.090	77.224	1.00 16.70
ATOM	3553	NE1	TRP			21.007	23.356	78.105	1.00 19.46
MOTA	3554	CE2	TRP			21.131	24.662	77.679	1.00 18.42
	3555	CE3	TRP			19.737	26.403	76.766	1.00 16.34
ATOM						22.241	25.512	77.625	1.00 16.76
MOTA	3556	CZ2	TRP						
MOTA	3557	CZ3	TRP			20.854	27.230	76.705	1.00 14.87
MOTA	3558	CH2				22.090	26.786	77.141	1.00 14.22
MOTA	3559	N	LEU			14.275	24.336	76.899	1.00 14.96
MOTA	3560	CA	LEU	A	448	13.146	24.835	76.096	1.00 16.27
ATOM	3561	C	LEU	Α	448	11.995	25.464	76.877	1.00 17.91
MOTA	3562	0	LEU	Α	448	11.332	26.404	76.398	1.00 13.49
ATOM	3563	CB	LEU	Α	448	12.522	23.690	75.238	1.00 16.42
ATOM	3564	CG	LEU	A	448	13.500	22.945	74.302	1.00 16.43
ATOM	3565	CD1	LEU	Α	448	12.845	21.795	73.536	1.00 15.65
MOTA	3566	CD2	LEU	A	448	14.163	23.901	73.315	1.00 12.87
ATOM	3567	N	TYR			11.733	24.874	78.048	1.00 15.32
ATOM	3568	CA	TYR			10.557	25.255	78.826	1.00 15.36
ATOM	3569	c c	TYR			10.763	25.822	80.198	1.00 19.93
ATOM	3570	ō	TYR			9.763	26.226	80.806	1.00 21.29
ATOM	3571	CB	TYR			9.611	24.031	78.983	1.00 14.65
	3572	CG	TYR			9.473	23.315	77.667	1.00 17.69
MOTA									
ATOM	3573		TYR			9.117	24.048	76.533	1.00 22.12
ATOM	3574		TYR			9.771	21.958	77.541	1.00 19.27
ATOM	3575		TYR			9.010	23.432	75.286	1.00 21.15
MOTA	3576		TYR			9.669	21.318	76.301	1.00 18.29
MOTA	3577	CZ	TYR			9.301	22.070	75.183	1.00 25.71
MOTA	3578	OH	TYR	A	449	9.216	21.480	73.951	1.00 26.15
ATOM	3579	N	SER	Α	450	11.985	25.806	80.724	1.00 15.79
ATOM	3580	CA	SER	A	450	12.156	26.362	82.061	1.00 14.12
ATOM	3581	C	SER	A	450	12.474	27.864	82.025	1.00 16.42
ATOM	3582	0	SER			13.127	28.340	81.109	1.00 15.32
ATOM	3583	СВ	SER			13.136	25.567	82.938	1.00 20.04
ATOM	3584	OG	SER			12.687	24.254	83.189	1.00 16.61
ATOM	3585	N	PRO			11.995	28.645	83.014	1.00 14.16
			PRO			12.287	30.052	83.014	1.00 14.16
MOTA	3586	CA							
ATOM	3587	C	PRO			13.696	30.228	83.581	1.00 15.11
ATOM	3588	0	PRO			14.347	29.259	83.997	1.00 15.64
MOTA	3589	CB	PRO	A	451	11.274	30.669	84.029	1.00 11.76

MOTA	3590	CG	PRO			10.903	29.560	84.988	1.00 16.01
MOTA	3591	$^{\rm CD}$	PRO	A	451	11.298	28.259	84.288	1.00 15.25
MOTA	3592	N	GLY	A	452	14.148	31.481	83.586	1.00 12.85
ATOM	3593	CA	GLY	Α	452	15.430	31.822	84.160	1.00 12.46
MOTA	3594	C	GLY	A	452	16.652	31.517	83.311	1.00 17.53
MOTA	3595	0	GLY	A	452	16.559	31.320	82.117	1.00 14.38
ATOM	3596	N	LEU	A	453	17.839	31.539	83.926	1.00 17.18
ATOM	3597	CA	LEU	A	453	19.054	31.268	83.196	1.00 14.53
MOTA	3598	C	LEU	A	453	19.087	29.819	82.762	1.00 14.71
ATOM	3599	0	LEU	A	453	18.523	28.978	83.456	1.00 16.06
MOTA	3600	CB	LEU	A	453	20.296	31.588	84.031	1.00 14.09
ATOM	3601	CG	LEU			20.526	33.091	84.216	1.00 18.81
ATOM	3602		LEU			21.635	33.253	85.247	1.00 16.98
ATOM	3603		LEU			21.001	33.761	82.919	1.00 21.45
ATOM	3604	N	PRO			19.770	29.537	81.637	1.00 15.62
MOTA	3605	CA	PRO			19.907	28.194	81.119	1.00 15.68
MOTA	3606	c	PRO			20.486	27.258	82.170	1.00 21.35
ATOM	3607	ō	PRO			21.236	27.662	83.039	1.00 21.73
MOTA	3608	CB	PRO			20.918	28.317	79.965	1.00 16.56
ATOM	3609	CG	PRO			20.906	29.751	79.501	1.00 16.74
ATOM	3610	CD	PRO			20.290	30.524	80.640	1.00 15.71
ATOM	3611	N	PRO			20.230	25.978	82.079	1.00 16.53
ATOM	3612	CA	PRO			20.140	24.976	83.005	1.00 16.33
ATOM	3613	CA	PRO			22.146	24.834	83.016	1.00 25.51
	3613	0	PRO			22.718	24.370	83.999	1.00 24.17
ATOM	3615		PRO			19.999	23.666	82.520	1.00 24.17
ATOM ATOM	3616	CB CG	PRO			19.523	23.888	81.094	1.00 21.81
MOTA	3617	CD	PRO			19.403	25.389	80.932	1.00 21.81
MOTA	3618	N	ILE			22.816	25.205	81.916	1.00 20.88
ATOM	3619	CA	ILE			24.262	25.117	81.810	1.00 20.88
ATOM	3620	C	ILE			24.822	26.292	81.000	1.00 17.40
ATOM	3621	0	ILE			24.022	26.798	80.064	1.00 17.96
	3622	СВ	ILE			24.191	23.737	81.316	1.00 23.45
MOTA MOTA	3623		ILE			26.173	23.737	81.456	1.00 23.45
ATOM	3624	CG2				24.285	23.529	79.865	1.00 26.37
ATOM	3625		ILE			26.571	22.167	80.951	1.00 25.37
MOTA	3626	N	LYS			26.011	26.772	81.383	1.00 35.97
MOTA	3627	CA	LYS			26.649	27.883	80.697	1.00 17.12
	3628	CA	LYS			27.727	27.333	79.815	1.00 17.12
ATOM ATOM	3629	0	LYS			28.541	26.562	80.281	1.00 17.84
ATOM	3630	CB	LYS			27.308	28.793	81.727	1.00 17.84
ATOM	3631	CG	LYS			27.896	30.067	81.130	1.00 16.24
ATOM	3632	CD	LYS			28.245	31.062	82.227	1.00 10.77
ATOM	3633	CE	LYS			28.785	32.347	81.659	1.00 10.77
ATOM	3634	NZ	LYS			29.467	33.164	82.683	1.00 18.20
ATOM	3635	N	PRO			27.733	27.708	78.558	1.00 15.20
ATOM	3636	CA	PRO			28.780	27.705	77.655	1.00 13.31
ATOM	3637	C	PRO			30.169	27.681	78.096	1.00 16.97
ATOM	3638	0	PRO			30.341	28.456	79.036	1.00 14.39
ATOM	3639	СВ	PRO			28.465	27.835	76.274	1.00 13.66
ATOM	3640	CG	PRO			27.036	28.364	76.363	1.00 14.88
	3641	CD	PRO			26.702	28.535	77.855	1.00 10.08
ATOM ATOM	3642	N	ASN			31.199	27.223	77.408	1.00 10.08
ATOM	3643	CA	asn			32.546	27.223	77.722	1.00 17.07
ATOM	3644	CA	ASN			32.924	28.839	76.793	1.00 15.61
	3645	0	ASN			32.524	28.812	75.578	1.00 20.83
MOTA MOTA	3646	CB	ASN			33.580	26.559	77.455	1.00 20.83
	3647	CG	ASN			33.580	25.288	78.136	1.00 19.80
ATOM ATOM	3648		ASN			32.952	25.288	79.347	1.00 25.10
ATOM	3649		asn			32.952	24.236	77.361	1.00 23.13
ATOM	3650	N	TYR			33.620	29.849	77.341	1.00 24.39
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ATOM	3651	CA	TYR	Α	460	34.021	30.994	76.536	1.00	14.52
ATOM	3652	C	TVP	Δ	460	35.485	31.370	76.683	7 00	16.97
ATOM	3653	0	TIR	A	460	36.003	31.442	77.802	1.00	13.34
MOTA	3654	CB	TYR	A	460	33.266	32.254	76.990	1.00	12.53
ATOM	3655	CG	סעידי	Δ	460	31.764	32.129	76.980		13.07
ATOM	3656	CD1	TYR	Α	460	31.070	31.553	78.046	1.00	17.79
ATOM	3657	CD2	TYR	Α	460	31.043	32.584	75.880	1.00	12.08
ATOM	3658	CE1	TVD	Δ	460	29.677	31.450	78.049		16.54
MOTA	3659	CE2			460	29.654	32.477	75.861	1.00	11.82
ATOM	3660	CZ	TYR	Α	460	28.971	31.911	76.938	1.00	16.71
ATOM	3661	OH	TVP	Δ	460	27.589	31.834	76.894		15.52
ATOM	3662	N	ASP	A	461	36.098	31.706	75.558	1.00	13.99
MOTA	3663	CA	ASP	Α	461	37.463	32.218	75.579	1.00	13.74
ATOM	3664	C	ACD	Δ	461	37.414	33.608	76.255		16.51
MOTA	3665	0	ASP	A	461	36.516	34.415	75.966	1.00	15.04
ATOM	3666	CB	ASP	Α	461	37.968	32.336	74.133	1.00	12.98
ATOM	3667	CG	ASP	Δ	461	39.393	32.801	74.148	1 00	25.31
ATOM	3668	OD1	ASP	A	461	40.335	32.064	74.314	1.00	40.40
ATOM	3669	OD2	ASP	Α	461	39.520	34.087	74.051	1.00	19.41
ATOM	3670	N	MET	Δ	462	38.339	33.887	77.191	1.00	12.14
MOTA	3671	CA			462	38.359	35.144	77.928	1.00	9.92
MOTA	3672	C	MET	Α	462	39.312	36.203	77.406	1.00	15.43
ATOM	3673	0	MET	Α	462	39.413	37.265	77.958	1.00	15.61
ATOM			MET							
	3674	CB				38.688	34.910	79.404	1.00	9.27
ATOM	3675	CG	MET	Α	462	37.716	33.909	79.977	1.00	13.43
ATOM	3676	SD	MET	Α	462	36.053	34.635	80.074	1.00	19.12
ATOM	3677	CE	MET			36.505				
							35.919	81.264		17.88
MOTA	3678	N	THR	A	463	40.037	35.922	76.347	1.00	13.87
MOTA	3679	CA	THR	Α	463	41.004	36.860	75.849	1.00	12.21
ATOM	3680	С	THR			40.675	38.339	75.910		16.34
ATOM	3681	0	THR			41.365	39.106	76.567	1.00	16.05
MOTA	3682	CB	THR	Α	463	41.595	36.434	74.489	1.00	17.83
ATOM	3683	OG1	THR	Δ	463	41.940	35.051	74.538	1.00	14.22
ATOM	3684	CG2	THR							
						42.841	37.298	74.204		15.70
ATOM	3685	N	LEU	Α	464	39.679	38.762	75.136	1.00	14.21
MOTA	3686	CA	LEU	Α	464	39.262	40.154	75.060	1.00	13.52
ATOM	3687	C	LEU	Δ	464	38.408	40.679	76.228		12.70
ATOM	3688	0	LEU	A	464	38.259	41.881	76.442	1.00	15.39
ATOM	3689	CB	LEU	Α	464	38.508	40.348	73.725	1.00	13.87
ATOM	3690	CG	LEU	А	464	39.363	40.009	72.495	1.00	18.04
ATOM	3691		LEU							
						38.448	40.076	71.260	1.00	
ATOM	3692	CD2	LEU	A	464	40.490	41.054	72.345	1.00	17.86
ATOM	3693	N	THR	A	465	37.808	39.770	76.979	1.00	11.81
MOTA	3694	CA.	THR	Δ	465 .	36.946	40.116	78.103	1 00	10.62
	3695									
ATOM		C	THR			37.728	40.487	79.360		17.70
ATOM	3696	0	THR	Α	465	37.361	41.359	80.131	1.00	15.35
MOTA	3697	CB	THR	А	465	35.996	38.934	78.368	1.00	12.56
MOTA	3698		THR			35.209	38.765	77.199		16.68
MOTA	3699	CG2	THR			35.075	39.241	79.545		17.17
ATOM	3700	N	ASN	A	466	38.828	39.785	79.584	1.00	14.17
ATOM	3701	CA	ASN	Δ	466	39.639	40.017	80.738		14.86
MOTA	3702	C	ASN			39.933	41.491	81.017		16.02
MOTA	3703	0	ASN	A	466	39.843	41.892	82.177	1.00	17.05
ATOM	3704	CB	ASN	Α	466	40.942	39.197	80.694		14.48
ATOM	3705	CG	ASN			40.787	37.705	80.932		22.10
MOTA	3706		ASN			41.539	36.878	80.386		21.72
ATOM	3707	ND2	ASN	Α	466	39.925	37.356	81.852	1.00	11.12
ATOM	3708	N	ALA			40.313	42.307	80.012		16.17
MOTA	3709	CA	ALA			40.614	43.704	80.336		16.10
ATOM	3710	C	ALA	Α	467	39.394	44.448	80.871	1.00	20.19
MOTA	3711	0	ALA	A	467	39.488	45.363	81.722		17.63
		-								

ATOM	3712	CB	ALA	Α	467	41.159	44.411	79.118	1.00 14.71
ATOM	3713	N	CYS	Δ	468	38.227	44.022	80.343	1.00 15.87
ATOM	3714	CA	CYS			36.938	44.608	80.712	1.00 13.86
MOTA	3715	С	CYS	Α	468	36.609	44.369	82.167	1.00 15.16
ATOM	3716	0	CYS	Α	468	36.229	45.234	82.931	1.00 17.79
			CYS						
MOTA	3717	CB				35.820	44.045	79.808	1.00 11.73
MOTA	3718	SG	CYS	Α	468	36.215	44.458	78.102	1.00 15.87
ATOM	3719	N	TLE	A	469	36.811	43.145	82.571	1.00 13.83
ATOM									
	3720	CA			469	36.531	42.747	83.941	1.00 11.80
ATOM	3721	С	ILE	Α	469	37.488	43.393	84.910	1.00 16.06
ATOM	3722	0	ILE	A	469	37.076	43.848	85.970	1.00 18.22
ATOM	3723	СВ	ILE			36.659	41.230	84.042	1.00 15.30
MOTA	3724	CG1	ILE	A	469	35.527	40.557	83.263	1.00 19.73
ATOM	3725	CG2	ILE	Α	469	36.688	40.791	85.497	1.00 11.46
MOTA	3726	CD1	ILE	Δ	469	35.788	39.073	82.977	1.00 25.13
MOTA	3727	N	ALA			38.776	43.375	84.572	1.00 12.77
ATOM	3728	CA	ALA	Α	470	39.729	43.967	85.475	1.00 11.93
ATOM	3729	С	ALA	Α	470	39.304	45.404	85.786	1.00 14.05
		0				39.264			
ATOM	3730		ALA				45.860	86.941	1.00 15.14
MOTA	3731	CB	ALA	Α	470	41.078	43.982	84.759	1.00 12.54
ATOM	3732	N	LEU	Α	471	38.979	46.120	84.708	1.00 15.25
ATOM	3733	CA	LEU			38.585	47.538	84.796	1.00 13.62
MOTA	3734	C	LEU	A	471	37.257	47.792	85.510	1.00 17.64
ATOM	3735	0	LEU	Α	471	37.144	48.630	86.411	1.00 13.08
ATOM	3736	CB	LEU	Δ	471	38.685	48.274	83.442	1.00 11.79
	3737	CG				38.684			
MOTA			LEU				49.803	83.614	
ATOM	3738	CD1	LEU	Α	471	39.855	50.262	84.497	1.00 12.47
ATOM	3739	CD2	LEU	Α	471	38.753	50.493	82.248	1.00 17.27
MOTA	3740	N	SER	Α	472	36.220	47.049	85.137	1.00 14.37
			SER						
ATOM	3741	CA				34.963	47.264	85.808	1.00 11.84
MOTA	3742	C	SER	А	472	35.082	46.900	87.284	1.00 18.13
ATOM	3743	0	SER	A	472	34.533	47.581	88.145	1.00 16.29
ATOM	3744	CB	SER	Α	472	33.822	46.488	85.153	1.00 12.21
MOTA	3745	OG	SER			34.090	45.121	85.240	1.00 18.74
ATOM	3746	N	GLN			35.761	45.804	87.615	1.00 12.67
ATOM	3747	CA	GLN	A	473	35.886	45.455	89.028	1.00 10.49
ATOM	3748	C	GLN	Α	473	36.615	46.538	89.813	1.00 12.50
ATOM	3749	0	GLN	A	473	36.278	46.879	90.950	1.00 12.44
ATOM	3750	CB	GLN			36.649	44.137	89.180	1.00 13.06
ATOM	3751	CG	GLN	A	473	35.730	42.908	89.040	1.00 20.04
ATOM	3752	CD	GLN	Α	473	34.634	42.874	90.108	1.00 19.81
ATOM	3753	OE1	GLN	Α	473	34.917	42.605	91.270	1.00 30.46
MOTA	3754		GLN			33.387	43.130	89.742	1.00 21.25
MOTA	3755	N	ARG	A	4/4	37.656	47.087	89.183	1.00 14.11
MOTA	3756	CA	ARG	Α	474	38.400	48.158	89.868	1.00 17.39
MOTA	3757	С	ARG	Α	474	37.478	49.325	90.235	1.00 21.36
ATOM	3758	0	ARG			37.577	49.922	91.304	1.00 18.76
			ARG						
MOTA	3759	CB				39.532	48.719	89.034	1.00 11.27
ATOM	3760	CG	ARG	A	474	40.786	47.842	89.038	1.00 17.88
MOTA	3761	CD	ARG	Α	474	41.727	48.283	87.928	1.00 21.70
ATOM	3762	NE	ARG	Δ	474	42.122	49.665	88.177	1.00 19.49
			ARG						
ATOM	3763	CZ				42.837	50.419	87.361	1.00 31.34
MOTA	3764		ARG			43.239	49.918	86.190	1.00 25.99
MOTA	3765	NH2	ARG	Α	474	43.160	51.679	87.742	1.00 17.92
MOTA	3766	N	TRP	A	475	36.602	49.686	89.306	1.00 14.64
ATOM	3767	CA	TRP			35.683	50.774	89.542	1.00 13.85
ATOM	3768	C	TRP			34.608	50.352	90.524	1.00 18.33
MOTA	3769	0	TRP	Α	475	34.250	51.076	91.430	1.00 15.30
MOTA	3770	CB	TRP	Α	475	35.033	51.236	88.235	1.00 13.65
ATOM	3771	CG	TRP			35.867	52.222	87.479	1.00 14.81
ATOM	3772	CDT	TRP	A	4/5	36.645	51.943	86.399	1.00 17.78

ATOM	3773	CD2	מ סידי	n	475	36 007	E2 C40	97 743	1 00 14 00
						36.007	53.640	87.742	1.00 14.88
ATOM	3774	NE1			475	37.284	53.090	85.976	1.00 18.25
ATOM	3775	CE2	TRP	Α	475	36.885	54.152	86.756	1.00 20.66
MOTA	3776	CE3	TRP	A	475	35.464	54.518	88.694	1.00 15.98
ATOM	3777	CZ2			475				
						37.243	55.511	86.714	1.00 19.78
ATOM	3778	CZ3	TRP	A	475	35.83 <i>9</i>	55.853	88.665	1.00 18.27
ATOM	3779	CH2	TRP	A	475	36.723	56.341	87.682	1.00 18.20
ATOM	3780	N	TLE	Δ	476	34.081	49.157	90.362	1.00 15.43
MOTA	3781	CA			476	33.027	48.713	91.251	1.00 15.88
ATOM	3782	C	ILE	A	476	33.508	48.628	92.684	1.00 21.66
ATOM	3783	0	ILE	A	476	32.742	48.833	93.614	1.00 20.18
ATOM	3784	CB	TLE	Δ	476	32.498	47.354	90.775	1.00 16.74
		CG1							
ATOM	3785	_			476	31.692	47.485	89.497	1.00 13.74
MOTA	3786	CG2	ILE	A	476	31.697	46.620	91.844	1.00 17.08
ATOM	3787	CD1	ILE	Α	476	31.568	46.130	88.810	1.00 22.82
ATOM	3788	N	THR	Α	477	34.780	48.321	92.886	1.00 18.89
ATOM	3789	CA			477				
						35.286	48.193	94.256	1.00 15.92
MOTA	3790	С	THR	A	477	36.151	49.355	94.708	1.00 17.65
MOTA	3791	0	THR	Α	477	36.711	49.333	95.792	1.00 17.49
ATOM	3792	CB	THR	Α	477	36.132	46.904	94.384	1.00 21.13
ATOM	3793	OG1			477	37.296	46.986	93.545	1.00 19.88
MOTA	3794	CG2			477	35.268	45.673	94.035	1.00 16.31
ATOM	3795	N	ALA	A	478	36.302	50.369	93.884	1.00 18.44
ATOM	3796	CA	ALA	A	478	37.131	51.548	94.191	1.00 16.94
ATOM	3797	C			478	36.729	52.219	95.490	1.00 20.18
MOTA	3798	0			478	35.552	52.233	95.863	1.00 19.40
ATOM	3799	CB	ALA	Α	478	37.017	52.608	93.077	1.00 15.66
ATOM	3800	N	LYS	Α	479	37.753	52.763	96.148	1.00 17.33
ATOM	3801	CA	LYS	Α	479	37.654	53.518	97.371	1.00 15.43
ATOM	3802	C			479	38.196	54.907	97.115	
									1.00 19.77
MOTA	3803	0			479	38.757	55.192	96.073	1.00 16.97
ATOM	3804	CB	LYS	A	479	38.325	52.853	98.562	1.00 17.71
MOTA	3805	CG	LYS	Α	479	37.468	51.685	99.049	1.00 25.29
ATOM	3806	CD	LYS			38.002		100.324	1.00 28.77
ATOM	3807	CE	LYS			36.895	50.623	101.280	1.00 75.63
ATOM	3808	NZ	LYS	Α	479	36.090	49.481	100.815	1.00 66.83
ATOM	3809	N	$\mathtt{GLU}$	Α	480	38.010	55.793	98.068	1.00 19.41
MOTA	3810	CA	GLU	Α	480	38.497	57.120	97.853	1.00 19.30
ATOM	3811	C	GLU			39.933	57.069	97.387	1.00 21.25
ATOM	3812	0	GLU			40.321	57.802	96.489	1.00 21.38
ATOM	3813	CB	GLU	A	480	38.457	57.901	99.183	1.00 21.20
MOTA	3814	CG	GLU	Α	480	37.322	58.931	99.171	1.00 53.93
MOTA	3815	CD	GLU	Α	480	37.505	59.998	98.131	1.00100.00
ATOM	3816		GLU			38.596	60.401	97.756	1.00100.00
MOTA	3817	OE2	GLU			36.360	60.456		
MOTA	3818	N	ASP	Α	481	40.730	56.249	98.059	1.00 15.59
ATOM	3819	CA	ASP	Α	481	42.120	56.150	97.734	1.00 17.58
ATOM	3820	С	ASP			42.463	55.609	96.372	1.00 22.00
	3821								
ATOM		0	ASP			43.639	55.651	96.002	1.00 21.23
MOTA	3822	CB	ASP			42.966	55.475	98.824	1.00 22.35
MOTA	3823	CG	ASP	Α	481	42.845	53.974	98.879	1.00 26.70
MOTA	3824	OD1	ASP	Α	481	42.040	53.276	98.295	1.00 22.31
ATOM	3825		ASP			43.769	53.466	99.638	1.00 19.37
MOTA	3826	N	ASP			41.483	55.147	95.608	1.00 16.23
ATOM	3827	CA	ASP	A	482	41.795	54.667	94.250	1.00 15.66
MOTA	3828	C	ASP	Α	482	41.485	55.667	93.144	1.00 20.38
MOTA	3829	0	ASP	А	482	41.994	55.549	92.031	1.00 19.78
ATOM	3830	СВ	ASP						1.00 15.75
						41.058	53.340	93.885	
ATOM	3831	CG	ASP			41.360	52.283	94.918	1.00 14.59
ATOM	3832	OD1	ASP	Α	482	42.463	51.867	95.146	1.00 16.94
MOTA	3833	OD2	ASP	Α	482	40.338	51.972	95.654	1.00 17.55
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ATOM	3834	N	LEU			40.627	56.645	93.423	1.00 17.94
MOTA	3835	CA	LEU	Α	483	40.167	57.591	92.403	1.00 14.70
MOTA	3836	С	LEU	Α	483	41.214	58.319	91.581	1.00 21.17
ATOM	3837	0	LEU	Α	483	41.122	58.519	90.368	1.00 21.03
ATOM	3838	CB	LEU			39.110	58.581	92.960	1.00 13.43
MOTA	3839	CG	LEU			37.870	57.925	93.558	1.00 15.53
MOTA	3840	CD1	LEU	A	483	36.970	59.020	94.114	1.00 19.32
MOTA	3841	CD2	LEU	Α	483	37.047	57.172	92.512	1.00 16.27
MOTA	3842	N	ASN	Α	484	42.220	58.761	92.289	1.00 19.63
MOTA	3843	CA	ASN	Α	484	43.274	59.541	91.713	1.00 19.74
ATOM	3844	C	ASN			44.128	58.789	90.738	1.00 21.84
							59.343	89.827	1.00 20.30
ATOM	3845	0	ASN			44.723			
MOTA	3846	CB	ASN			44.110	60.036	92.891	1.00 34.83
MOTA	3847	CG	ASN	Α	484	45.382	60.719	92.449	1.00100.00
ATOM	3848	OD1	ASN	Α	484	45.345	61.686	91.662	1.00 87.99
MOTA	3849	ND2	ASN	Α	484	46.510	60.200	92.946	1.00100.00
ATOM	3850	N	SER	А	485	44.183	57.510	90.918	1.00 17.69
ATOM	3851	CA	SER			44.986	56.711	90.020	1.00 19.64
						44.283	56.335	88.728	1.00 22.88
MOTA	3852	C	SER						
MOTA	3853	0	SER			44.965	55.937	87.778	1.00 23.74
MOTA	3854	CB	SER	A	485	45.543	55.508	90.752	1.00 26.03
ATOM	3855	OG	SER	Α	485	45.864	55.954	92.057	1.00 52.22
ATOM	3856	N	PHE	Α	486	42.948	56.451	88.650	1.00 15.68
ATOM	3857	CA	PHE			42.367	56.105	87.371	1.00 17.12
ATOM	3858	C			486	42.879	57.120	86.403	1.00 16.98
						43.165	58.236	86.812	1.00 15.87
ATOM	3859	0			486				
ATOM	3860	CB			486	40.827	56.088	87.376	1.00 18.47
ATOM	3861	CG			486	40.270	54.950	88.181	1.00 17.85
ATOM	3862	CD1	PHE	Α	486	40.325	53.646	87.686	1.00 17.48
MOTA	3863	CD2	PHE	Α	486	39.669	55.169	89.423	1.00 19.85
ATOM	3864	CE1	PHE	Α	486	39.790	52.599	88.441	1.00 18.74
ATOM	3865	CE2				39.119	54.139	90.189	1.00 19.10
MOTA	3866	CZ			486	39.208	52.839	89.689	1.00 17.75
		N	ASN			42.965	56.744	85.140	1.00 16.22
MOTA	3867								1.00 20.09
MOTA	3868	CA	ASN			43.499	57.636	84.141	
ATOM	3869	C	ASN			43.100	57.184	82.746	1.00 23.67
MOTA	3870	0	ASN	Α	487	42.770	56.024	82.522	1.00 22.60
MOTA	3871	CB	ASN	Α	487	45.058	57.575	84.255	1.00 21.63
MOTA	3872	CG	ASN	Α	487	45.776	58.616	83.415	1.00 32.80
MOTA	3873	OD1	ASN	Α	487	45.901	58.498	82.202	1.00 29.22
ATOM	3874		ASN			46.159	59.725	84.021	1.00 31.52
ATOM	3875	N			488	43.145	58.126	81.800	1.00 23.87
							57.829	80.411	1.00 24.07
ATOM	3876	CA			488	42.808			
MOTA	3877	C			488	43.673	56.703	79.873	1.00 30.63
MOTA	3878	0	ALA			43.336	55.962	78.958	1.00 33.83
MOTA	3879	CB	ALA	Α	488	42.978	59.086	79.574	1.00 26.14
ATOM	3880	n	THR	Α	489	44.835	56.532	80.467	1.00 25.63
MOTA	3881	CA	THR	Α	489	45.666	55.468	79.987	1.00 22.82
MOTA	3882	С	THR	А	489	44.976	54.168	80.210	1.00 24.75
MOTA	3883	ō			489	45.323	53.163	79.615	1.00 26.26
		СВ			489	47.017	55.459	80.691	1.00 29.64
MOTA	3884						55.537	82.076	1.00 29.43
MOTA	3885		THR			46.814			
ATOM	3886		THR			47.774	56.684	80.231	1.00 35.78
MOTA	3887	N			490	43.999	54.180	81.097	1.00 21.60
MOTA	3888	CA			490	43.288	52.946	81.362	1.00 20.54
MOTA	3889	С	ASP	Α	490	42.628	52.391	80.104	1.00 14.90
ATOM	3890	0			490	42.363	51.207	80.013	1.00 18.94
ATOM	3891	СВ			490	42.188	53.100	82.462	1.00 18.42
	3892	CG			490	42.764	53.483	83.785	1.00 21.60
ATOM								84.170	1.00 21.00
ATOM	3893		ASP			43.865	53.165		
MOTA	3894	OD2	ASP	A	490	41.930	54.124	84.534	1.00 18.24

MOTA	3895	N	LEU	Α	491	42.309	53.262	79.180	1.00 14.42
MOTA	3896	CA	LEU	Α	491	41.571	52.910	77.971	1.00 18.63
MOTA	3897	C	LEU			42.404	52.634	76.735	1.00 26.17
ATOM	3898	ō	LEU			41.863	52.350	75.689	1.00 23.53
ATOM	3899	CB	LEU			40.626	54.065	77.600	1.00 16.48
ATOM	3900	CG	LEU			39.793	54.553	78.786	1.00 17.62
MOTA	3901		LEU			38.719	55.504	78.256	1.00 17.62
ATOM	3902		LEU			39.164	53.341	79.481	1.00 10.99
ATOM	3903	И	LYS			43.697	52.773	76.906	1.00 25.72
ATOM	3904	CA	LYS			44.773	52.625	75.944	1.00 29.38
MOTA	3905	C	LYS			44.601	51.464	74.987	1.00 26.62
MOTA	3906	0	LYS			44.640	51.598	73.769	1.00 25.36
MOTA	3907	CB	LYS	A	492	46.051	52.369	76.768	1.00 39.68
ATOM	3908	CG	LYS	Α	492	47.400	52.731	76.164	1.00 74.03
MOTA	3909	CD	LYS	A	492	48.535	52.573	77.175	1.00 92.88
MOTA	3910	CE	LYS	Α	492	49.162	51.184	77.249	1.00100.00
ATOM	3911	NZ	LYS	Α	492	50.629	51.214	77.397	1.00100.00
ATOM	3912	N	ASP	A	493	44.504	50.271	75.514	1.00 22.05
MOTA	3913	CA	ASP	Α	493	44.400	49.213	74.525	1.00 25.28
MOTA	3914	C	ASP	Α	493	43.008	48.604	74.421	1.00 31.85
ATOM	3915	0	ASP			42.844	47.411	74.178	1.00 31.64
ATOM	3916	СВ	ASP			45.414	48.126	74.874	1.00 30.29
ATOM	3917	CG	ASP			46.803	48.680	74.973	1.00 47.27
ATOM	3918		ASP			47.322	49.280	74.036	1.00 49.99
ATOM	3919		ASP			47.334	48.481	76.167	1.00 45.03
ATOM	3920	N	LEU			41.989	49.430	74.622	1.00 23.95
	3921	CA	LEU			40.633	48.920	74.576	1.00 19.08
ATOM			LEU				49.350	73.295	1.00 21.27
ATOM	3922	C				39.939 39.960			
ATOM	3923	0	LEU				50.537	72.963	1.00 22.24
ATOM	3924	CB	LEU			39.833	49.421	75.800	1.00 16.85
ATOM	3925	CG	LEU			40.346	48.949	77.145	1.00 19.46
ATOM	3926		LEU.			39.307	49.363	78.182	1.00 18.39
MOTA	3927		LEU			40.511	47.422	77.183	1.00 20.77
ATOM	3928	N	SER			39.320	48.401	72.573	1.00 17.36
ATOM	3929	CA	SER			38.594	48.790	71.382	1.00 16.04
MOTA	3930	C	SER			37.256	49.395	71.854	1.00 16.87
ATOM	3931	0	SER			36.902	49.328	73.042	1.00 13.30
MOTA	3932	CB	SER			38.253	47.547	70.576	1.00 16.67
ATOM	3933	OG	SER			37.477	46.701	71.422	1.00 17.37
MOTA	3934	N	SER	A	496	36.496	49.950	70.922	1.00 14.14
MOTA	3935	CA	SER	Α	496	35.200	50.501	71.254	1.00 16.64
MOTA	3936	C	SER	Α	496	34.316	49.365	71.794	1.00 17.90
MOTA	3937	0	SER	Α	496	33.495	49.589	72.680	1.00 16.25
MOTA	3938	CB	SER	A	496	34.553	51.190	70.050	1.00 17.35
MOTA	3939	OG	SER	A	496	34.309	50.183	69.105	1.00 23.79
MOTA	3940	N	HIS	A	497	34.522	48.136	71.274	1.00 15.34
MOTA	3941	CA	HIS	Α	497	33.794	46.965	71.729	1.00 13.46
ATOM	3942	C	HIS			33.999	46.671	73.224	1.00 17.45
ATOM	3943	0	HIS			33.120	46.277	73.992	1.00 17.69
ATOM	3944	СВ	HIS			34.211	45.761	70.874	1.00 13.79
ATOM	3945	CG	HIS			33.804	46.004	69.470	1.00 20.43
ATOM	3946		HIS			34.738	46.342	68.482	1.00 24.52
ATOM	3947		HIS			32.551	46.044	68.930	1.00 21.08
MOTA	3948		HIS			34.039	46.531	67.358	1.00 21.87
	3949		HIS			32.725	46.363	67.602	1.00 23.02
ATOM	3949 3950		GLN			35.230	46.833	73.662	1.00 23.02
MOTA		N						75.029	1.00 10.78
ATOM	3951	CA	GLN			35.633	46.593		
MOTA	3952	C	GLN			35.180	47.697	75.968	1.00 13.63
MOTA	3953	0	GLN			34.829	47.449	77.118	1.00 13.35
ATOM	3954	CB	GLN			37.156	46.416	75.038	1.00 11.59
ATOM	3955	CG	GLN	A	498	37.585	45.026	74.488	1.00 14.99

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MOTA	3956	CD	GLN A		39.101	44.938	74.454	1.00 21.92
ATOM	3957	0E1	GLN A		39.746	45.833	73.897	1.00 18.12
ATOM	3958	NE2	GLN A	498	39.685	43.957	75.117	1.00 11.55
ATOM	3959	N	LEU A	499	35.200	48.942	75.490	1.00 16.63
MOTA	3960	CA	LEU A	499	34.712	50.095	76.273	1.00 18.30
MOTA	3961	С	LEU A		33.222	49.848	76.647	1.00 18.08
ATOM	3962	0	LEU A	_	32.711	50.004	77.782	1.00 14.69
ATOM	3963	ĊВ	LEU A		34.719	51.296	75.293	1.00 19.02
		CG	LEU A		35.650	52.421	75.677	1.00 28.28
ATOM	3964							
MOTA	3965		LEU A		36.768	51.856	76.527	1.00 27.69
MOTA	3966		LEU A		36.210	53.135	74.448	1.00 31.77
ATOM	3967	N	ASN A		32.491	49.430	75.610	1.00 11.59
ATOM	3968	CA.	ASN A	500	31.084	49.123	75.748	1.00 10.98
ATOM	3969	С	ASN A	500	30.844	48.021	76.775	1.00 11.55
ATOM	3970	0	ASN A	500	29.989	48.125	77.656	1.00 13.43
MOTA	3971	CB	ASN A	500	30.530	48.735	74.355	1.00 11.90
ATOM	3972	CG	ASN A	500	29.020	48.504	74.328	1.00 26.05
ATOM	3973		ASN A		28.208	49.304	74.815	1.00 19.55
ATOM	3974		ASN A		28.607	47.387	73.759	1.00 21.02
ATOM	3975	N	GLU A		31.601	46.927	76.633	1.00 11.18
ATOM	3976	CA	GLU A		31.471	45.787	77.537	1.00 11.00
						46.184		1.00 14.40
ATOM	3977	C	GLU A		31.859		78.954	
ATOM	3978	0	GLU A		31.266	45.757	79.930	1.00 13.70
ATOM	3979	CB	GLU A		32.286	44.574	77.022	1.00 13.23
MOTA	3980	CG	GLU A		32.328	43.425	78.064	1.00 12.24
ATOM	3981	CD	GLU A		30.930	42,880	78.253	1.00 20.51
ATOM	3982	OE1	GLU A	501	30.040	43.113	77.452	1.00 18.75
ATOM	3983	OE2	GLU A	501	30.747	42.158	79.338	1.00 16.17
ATOM	3984	N	PHE A	502	32.876	47.051	79.080	1.00 10.99
MOTA	3985	CA	PHE A	502	33.281	47.530	80.382	1.00 12.47
MOTA	3986	C	PHE A	502	32.095	48.241	81.068	1.00 12.80
ATOM	3987	0	PHE A		31.733	48.062	82.230	1.00 11.74
ATOM	3988	CB	PHE A		34.498	48.490	80.167	1.00 14.11
ATOM	3989	CG	PHE A		34.641	49.500	81.265	1.00 11.76
ATOM	3990		PHE A		34.958	49.120	82.570	1.00 9.77
			PHE A		34.363	50.847	81.040	1.00 17.45
MOTA	3991							1.00 17.43
ATOM	3992		PHE A		35.059	50.053	83.605	
MOTA	3993	CE2	PHE A		34.443	51.799	82.063	1.00 20.32
MOTA	3994	CZ	PHE A		34.812	51.406	83.350	1.00 16.55
MOTA	3995	N	LEU A		31.470	49.100	80.286	1.00 10.48
MOTA	3996	CA	LEU A		30.342	49.835	80.759	1.00 11.84
MOTA	3997	C	LEU A		29.184	48.917	81.089	1.00 11.65
ATOM	3998	0	LEU A		28.531	49.077	82.110	1.00 14.41
MOTA	3999	CB	LEU A	503	29.974	50.854	79.668	1.00 12.15
MOTA	4000	CG	LEU A	503	30.872	52.105	79.668	1.00 12.97
ATOM	4001	CD1	LEU A	503	30.572	52.957	78.438	1.00 9.62
MOTA	4002	CD2	LEU A	503	30.614	52.935	80.936	1.00 14.08
ATOM	4003	N	ALA A	504	28.947	47.910	80.248	1.00 12.65
MOTA	4004	CA	ALA A	504	27.850	46.977	80.499	1.00 8.77
ATOM	4005	Ç	ALA A		28.038	46.282	81.812	1.00 12.09
ATOM	4006	Õ	ALA A		27.118	46.081	82.598	1.00 10.26
ATOM	4007	CB	ALA A		27.742	45.965	79.370	1.00 7.47
ATOM		N	GLN A		29.280	45.900	82.035	1.00 12.47
	4008		GLN A				83.271	1.00 12.47
MOTA	4009	CA			29.609	45.209		
ATOM	4010	C	GLN A		29.424	46.144	84.484	1.00 14.71
ATOM	4011	0	GLN A		28.902	45.773	85.566	1.00 13.04
ATOM	4012	CB	GLN A		31.068	44.689	83.183	1.00 14.37
MOTA	4013	CG	GLN A		31.243	43.520	82.174	1.00 17.48
MOTA	4014	CD	GLN A		32.693	43.054	82.089	1.00 20.84
ATOM	4015	OE1	GLN A	505	33.556	43.462	82.890	1.00 21.65
MOTA	4016	NE2	GLN A	505	32.990	42.221	81.096	1.00 16.13

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ATOM	4017	N			506	29.862	47.389	84.298		13.56
MOTA	4018	CA	THR			29.749	48.348	85.373		15.13
MOTA	4019	C	THR	Α	506	28.280	48.610	85.714	1.00	
ATOM	4020	0	THR	A	506	27.835	48.662	86.879	1.00	13.71
MOTA	4021	CB	THR	A	506	30.561	49.613	85.043	1.00	13.74
MOTA	4022	OG1	THR	A	506	31.903	49.243	84.853	1.00	13.66
ATOM	4023	CG2	THR	Α	506	30.542	50.538	86.242	1.00	16.98
ATOM	4024	N	LEU	Α	507	27.532	48.734	84.636	1.00	15.17
ATOM	4025	CA	LEU	Α	507	26.109	49.007	84.748	1.00	15.46
ATOM	4026	С	LEU	Α	507	25.391	47.944	85.517	1.00	15.53
ATOM	4027	0	LEU	Α	507	24.464	48.230	86.256	1.00	14.10
ATOM	4028	CB	LEU			25.476	49.185	83.351	1.00	16.26
ATOM	4029	CG	LEU			24.017	49.581	83.374	1.00	17.96
ATOM	4030		LEU			23.801	50.929	84.087	1.00	12.71
ATOM	4031		LEU			23.550	49.633	81.923		13.10
ATOM	4032	N	GLN			25.802	46.696	85.343	1.00	
ATOM	4033	CA	GLN			25.145	45.630	86.077		11.70
ATOM	4034	C	GLN			25.264	45.846	87.581		19.07
ATOM	4035	0	GLN			24.521	45.269	88.354		16.98
ATOM	4036	CB	GLN			25.736	44.246	85.745		11.79
	4037	CG	GLN			25.402	43.722	84.334		17.73
ATOM			GLN			25.860	42.282	84.204		20.08
ATOM	4038	CD	GLN				41.972	84.695		23.98
ATOM	4039					26.960		83.594		15.23
MOTA	4040		GLN ARG			25.048	41.402 46.639			17.16
ATOM	4041	N				26.217		88.053 89.498		12.26
ATOM	4042	CA	ARG			26.332	46.847	89.899		17.09
ATOM	4043	C	ARG			25.960 26.379	48.279			18.12
ATOM	4044	0	ARG				48.778	90.948		12.59
ATOM	4045	CB	ARG			27.741	46.537	90.036		
ATOM	4046	CG	ARG			28.095	45.097	89.784		17.56
MOTA	4047	CD	ARG			27.422	44.228	90.829		25.37
ATOM	4048	NE	ARG			28.134	44.270	92.117		81.24
ATOM	4049	CZ	ARG			29.377	43.822	92.417		88.85
ATOM	4050		ARG			30.235	43.233	91.555		63.02
ATOM	4051		ARG			29.779	43.978	93.676		42.33
MOTA	4052	N	ALA			25.162	48.958	89.088		14.89
ATOM	4053	CA	ALA			24.782	50.321	89.428		13.02
ATOM	4054	C	ALA			23.824	50.270	90.594		22.66
ATOM	4055	0	ALA			23.176	49.243	90.747		21.57
ATOM	4056	CB	ALA			24.166	51.066	88.248		13.60 20.55
ATOM	4057	N	PRO			23.755	51.340	91.417 91.190		
MOTA	4058	CA	PRO			24.521	52.568			16.50
ATOM	4059	C	PRO			25.912	52.528	91.759		17.68
ATOM	4060	0	PRO			26.199	51.765	92.658		15.20
MOTA	4061	CB	PRO			23.836	53.667	92.001		15.68
MOTA	4062	CG	PRO			23.118	52.916	93.106		22.23
ATOM	4063	CD	PRO			22.859	51.497	92.597 91.203		18.77
ATOM	4064	N	LEU			26.755	53.380			19.26
ATOM	4065	CA	LEU			28.070	53.588	91.751 92.529		19.26
ATOM	4066	C	LEU			27.964	54.919			19.35
MOTA	4067	0	LEU			27.053	55.732	92.316 90.683		15.40
MOTA	4068	CB	LEU			29.183	53.659			19.06
MOTA	4069	CG	LEU			29.796	52.274	90.415		23.85
ATOM	4070		LEU			28.762	51.351	89.763		24.14
ATOM	4071		LEU			30.975	52.408	89.453		17.31
ATOM	4072	N	PRO			28.880	55.157	93.459		18.91
MOTA	4073	CA	PRO			28.823	56.408	94.168		16.34
MOTA	4074	C	PRO			28.925	57.520	93.140		17.64
MOTA	4075	0	PRO			29.686	57.443	92.192		15.39
MOTA	4076	CB	PRO			30.031	56.431	95.107		16.06
ATOM	4077	CG	PRO	A	513	30.443	54.972	95.246	1.00	21.97

MOTA	4078	CD	PRO A		29.960	54.270	93.987	1.00 17.15
MOTA	4079	N	LEU A		28.154	58.573	93.341	1.00 19.37
ATOM	4080	CA	LEU A		28.155	59.712	92.431	1.00 20.71
ATOM	4081	С	LEU A		29.567	60.240	92.151	1.00 22.73
MOTA	4082	0	LEU A	514	29.934	60.486	90.991	1.00 20.91
MOTA	4083	CB	LEU A	514	27.209	60.816	92.955	1.00 19.46
MOTA	4084	CG	LEU A	514	27.173	62.058	92.077	1.00 23.47
ATOM	4085	CD1	LEU A	514	26.650	61.694	90.681	1.00 21.60
ATOM	4086	CD2	LEU A		26.275	63.087	92.767	1.00 19.09
ATOM	4087	N	GLY A		30.353	60.384	93.236	1.00 19.02
ATOM	4088	CA	GLY A		31.711	60.866	93.104	1.00 16.33
ATOM	4089	C	GLY A		32.489	60.000	92.121	1.00 20.68
ATOM	4090	ō	GLY A		33.336	60.489	91.363	1.00 20.00
ATOM	4091	N	HIS A		32.199	58.691	92.105	
								1.00 16.69
ATOM	4092	CA	HIS A		32.961	57.829	91.206	1.00 16.67
MOTA	4093	C	HIS A		32.629	58.092	89.762	1.00 16.39
MOTA	4094	0	HIS A		33.485	58.094	88.886	1.00 13.40
ATOM	4095	CB	HIS A		32.781	56.335	91.479	1.00 16.85
ATOM	4096	CG	HIS A		33.328	55.909	92.786	1.00 23.07
ATOM	4097		HIS A		33.586	56.811	93.804	1.00 27.10
ATOM	4098		HIS A		33.691	54.664	93.219	1.00 26.55
MOTA	4099		HIS A		34.067	56.096	94.831	1.00 27.40
ATOM	4100	NE2	HIS A	516	34.144	54.803	94.514	1.00 26.59
ATOM	4101	N	ILE A	517	31.349	58.288	89.534	1.00 14.76
ATOM	4102	CA	ILE A		30.887	58.520	88.189	1.00 15.71
MOTA	4103	C	ILE A	517	31.444	59.817	87.666	1.00 13.62
ATOM	4104	0	ILE A	517	31.851	59.960	86.511	1.00 13.02
ATOM	4105	CB	ILE A	517	29.350	58.408	88.144	1.00 20.46
ATOM	4106	CG1	ILE A	517	28.925	56.989	88.555	1.00 23.97
ATOM	4107	CG2	ILE A	517	28.793	58.653	86.750	1.00 19.51
MOTA	4108	CD1	ILE A	517	29.636	55.831	87.826	1.00 21.92
ATOM	4109	N	LYS A	518	31.433	60.804	88.549	1.00 13.76
ATOM	4110	CA	LYS A	518	32.004	62.082	88.137	1.00 12.83
ATOM	4111	C	LYS A	518	33.487	61.877	87.759	1.00 17.13
ATOM	4112	0	LYS A	518	33.971	62.371	86.745	1.00 14.95
MOTA	4113	CB	LYS A	518	31.858	63.092	89.279	1.00 12.59
ATOM	4114	CG	LYS A	518	30.392	63.447	89.416	1.00 15.77
ATOM	4115	CD	LYS A	518	30.169	64.528	90.446	1.00 25.59
ATOM	4116	CE	LYS A	518	28.743	65.047	90.425	1.00 26.22
MOTA	4117	NZ	LYS A	518	28.669	66.440	90.886	1.00 26.75
MOTA	4118	N	ARG A	519	34.237	61.144	88.604	1.00 15.99
ATOM	4119	CA	ARG A		35.647	60.914	88.321	1.00 13.25
ATOM	4120	C	ARG A	519	35.803	60.213	86.998	1.00 16.26
ATOM	4121	0	ARG A		36.679	60.478	86.216	1.00 13.50
MOTA	4122	CB	ARG A			60.075		
ATOM	4123	CG	ARG A		37.741	59.741	89.216	1.00 13.79
ATOM	4124	CD	ARG A		38.685	60.955	89.134	1.00 22.42
ATOM	4125	NE	ARG A		40.127	60.613	89.069	1.00 17.77
ATOM	4126	CZ	ARG A		41.035	61.432	88.570	1.00 19.26
ATOM	4127		ARG A		40.692	62.640	88.087	1.00 13.20
			ARG A					1.00 10.57
MOTA MOTA	4128	NAZ N	MET A		42.289 34.897	61.014 59.292	88.549	
	4129						86.743	1.00 13.85
ATOM	4130	CA	MET A		34.944	58.548	85.514	1.00 13.32
MOTA	4131	C	MET A		34.803	59.460	84.299	1.00 16.61
MOTA	4132	0	MET A		35.461	59.286	83.279	1.00 15.39
ATOM	4133	CB	MET A		33.860	57.425	85.585	1.00 15.92
ATOM	4134	CG	MET A		33.887	56.502	84.369	1.00 16.73
ATOM	4135	SD	MET A		32.699	55.131	84.463	1.00 19.40
ATOM	4136	CE	MET A		33.250	54.267	85.942	1.00 17.31
MOTA	4137	N	GLN A		33.919	60.449	84.358	1.00 10.96
ATOM	4138	CA	GLN A	521	33.800	61.336	83.205	1.00 10.25

ATOM	4139	С	GLN	Α	521	35.105	62.160	83.122	1.00 14.21
ATOM	4140	0	GLN			35.684	62.487	82.073	1.00 11.43
ATOM	4141	CB	GLN			32.548	62.237	83.376	1.00 9.22
ATOM	4142	CG	GLN			32.547	63.519	82.503	1.00 12.68
ATOM	4143	CD	GLN			32.758	63.301	81.025	1.00 18.23
ATOM	4144	OE1				33.271	64.187	80.309	1.00 20.20
	4145	NE2				32.453	62.102	80.554	1.00 10.43
ATOM			GLU			35.608	62.524	84.295	1.00 15.29
ATOM	4146	N					63.335	84.345	1.00 13.25
ATOM	4147	CA	GLU			36.816			
ATOM	4148	C	GLU			38.026	62.632	83.702	1.00 24.87
MOTA	4149	0	GLU			38.848	63.232	82.990	1.00 19.95
MOTA	4150	CB	GLU			37.068	63.573	85.820	1.00 15.93
MOTA	4151	CG	GLU			38.175	64.573	86.121	1.00 34.79
ATOM	4152	CD	GLU			38.013	64.959	87.556	1.00 61.54
MOTA	4153	OE1				38.436	64.271	88.466	1.00 24.02
ATOM	4154		GLU			37.252	66.014	87.710	1.00 60.58
ATOM	4155	N	VAL			38.179	61.338	83.966	1.00 17.81
ATOM	4156	CA	VAL	A	523	39.302	60.635	83.392	1.00 17.49
MOTA	4157	C	VAL	Α	523	39.081	60.051	81.994	1.00 17.20
ATOM	4158	0	VAL	A	523	40.038	59.940	81.230	1.00 22.12
ATOM	4159	CB	VAL	Α	523	39.952	59.621	84.340	1.00 18.80
MOTA	4160	CG1	VAL	A	523	40.427	60.324	85.613	1.00 18.67
ATOM	4161	CG2	VAL	A	523	38.957	58.522	84.717	1.00 17.30
ATOM	4162	N	TYR	A	524	37.851	59.676	81.633	1.00 13.33
ATOM	4163	CA	TYR	Α	524	37.638	59.045	80.331	1.00 12.09
ATOM	4164	С	TYR	Α	524	36.842	59.839	79.321	1.00 19.77
ATOM	4165	0	TYR			36.720	59.417	78.179	1.00 17.94
ATOM	4166	CB	TYR	A	524	36.961	57.656	80.463	1.00 13.83
ATOM	4167	CG	TYR			37.615	56.667	81.421	1.00 14.86
ATOM	4168	CD1				38.999	56.608	81.574	1.00 13.07
ATOM	4169	CD2	TYR			36.832	55.761	82.146	1.00 19.57
ATOM	4170	CE1	TYR			39.592	55.704	82.460	1.00 18.13
ATOM	4171	CE2	TYR			37.403	54.832	83.019	1.00 18.46
ATOM	4172	CZ	TYR			38.790	54.813	83.181	1.00 17.58
ATOM	4173	OH	TYR			39.360	53.937	84.087	1.00 16.81
ATOM	4174	N	ASN			36.235	60.940	79.753	1.00 20.91
ATOM	4175	CA	ASN			35.435	61.755	78.865	1.00 16.88
ATOM	4176	C	ASN			34.488	60.923	78.018	1.00 18.05
ATOM	4177	o	ASN			34.450	61.014	76.789	1.00 15.92
ATOM	4178	CB	ASN			36.361	62.615	78.002	1.00 13.81
MOTA	4179	CG	ASN			35.680	63.751	77.259	1.00 18.94
ATOM	4180		ASN			36.243	64.268	76.280	1.00 18.98
ATOM	4181		ASN			34.502	64.169	77.693	1.00 14.31
ATOM	4182	N	PHE			33.659	60.120	78.683	1.00 14.70
ATOM	4183	CA	PHE			32.676	59.337	77.947	1.00 12.71
MOTA	4184	C	PHE			31.596	60.234	77.380	1.00 16.60
MOTA	4185	ō	PHE			30.891	59.866	76.439	1.00 15.88
ATOM	4186	СВ			526	32.038	58.303	78.876	1.00 14.35
MOTA	4187	CG	PHE			32.957	57.130	79.130	1.00 15.85
ATOM	4188		PHE			33.895	56.735	78.175	1.00 19.68
			PHE			32.876	56.397	80.314	1.00 16.85
ATOM	4189		PHE			34.687	55.604	78.378	1.00 21.64
ATOM	4190		PHE			33.698	55.298	80.567	1.00 19.90
ATOM	4191					34.590	54.890	79.575	1.00 19.30
ATOM	4192	CZ			526 527	31.418	61.433	77.949	1.00 18.31
MOTA	4193	И	ASN			30.391		77.446	1.00 12.75
MOTA	4194	CA	ASN				62.355	75.971	1.00 12.28
ATOM	4195	C			527	30.627	62.668		
ATOM	4196	0			527	29.715	62.907	75.185	1.00 18.13
ATOM	4197	CB	ASN			30.431	63.713	78.160	1.00 13.86
ATOM	4198	CG			527	29.641	63.696	79.434	1.00 25.14
ATOM	4199	OD1	ASN	A	527	29.760	64.600	80.250	1.00 20.32

	200	MTD2	ASN	Δ	527	28.830	62.668	79.610	1.00 10.82
							62.668	75.607	1.00 15.34
			ALA			31.906			
			ALA			32.280	62.964	74.264	1.00 17.72
ATOM 4	203	С	ALA	Α	528	32.075	61.861	73.228	1.00 26.48
ATOM 4	204	0	ALA	Α	528	32.198	62.127	72.031	1.00 21.26
ATOM 4	205	СВ	ALA	Α	528	33.729	63.372	74.236	1.00 18.38
		N	ILE				60.629	73.664	1.00 19.00
		CA	ILE			31.690	59.524	72.731	1.00 15.58
		C	ILE			30.389	59.499	71.945	1.00 15.90
ATOM 4		0	ILE			29.305	59.561	72.494	1.00 16.45
ATOM 4	210	CB	ILE	Α	529	31.946	58.208	73.454	1.00 17.38
ATOM 4	211	CG1	ILE	Α	529	33.456	58.159	73.709	1.00 19.42
ATOM 4	212	CG2	ILE	Α	529	31.511	57.103	72.488	1.00 17.67
ATOM 4	213	CD1	ILE	Α	529	34.027	57.047	74.576	1.00 23.37
			ASN				59.418	70.641	1.00 16.94
			ASN			29.151	59.417	69.969	1.00 20.74
			ASN			28.522	58.081	69.611	1.00 25.19
			ASN			27.369	58.026	69.217	1.00 23.63
			ASN				60.566	68.986	1.00 39.14
ATOM 4	219	CG	ASN	Α	530	28.612	61.852	69.749	1.00 80.92
ATOM 4	220	OD1	ASN	Α	530	27.639	61.959	70.533	1.00 86.83
ATOM 4	221	ND2	ASN	Α	530	29.470	62.838	69.537	1.00 45.14
ATOM 4	222	N	ASN	Α	531	29.306	57.019	69.759	1.00 19.99
			ASN	Α	531	28.875	55.667	69.494	1.00 18.88
		C	ASN			27.637	55.452	70.350	1.00 15.67
			ASN			27.671	55.661	71.566	1.00 15.13
		CB	ASN			30.045	54.762	69.928	1.00 11.62
							53.292	69.866	1.00 26.73
			ASN			29.705			
			ASN			28.724	52.832	70.471	1.00 21.97
			ASN				52.554	69.105	1.00 18.28
ATOM 4		И	SER			26.551	55.074	69.715	1.00 12.93
ATOM 4	231	CA	SER	А	532	25.293	54.931	70.456	1.00 15.99
ATOM 4	232	C	SER	Α	532	25.248	53.889	71.565	1.00 17.50
ATOM 4	233	0	SER	A	532	24.631	54.066	72.611	1.00 20.47
ATOM 4	234	CB	SER	A	532	24.088	54.846	69.518	1.00 17.43
ATOM 4	235	OG	SER	Α	532	24.274	53.791	68.570	1.00 24.83
								68.570 71.337	1.00 24.83 1.00 14.65
ATOM 4	236	N	GLU	A	533	25.876	52.753	71.337	1.00 14.65
ATOM 4 ATOM 4	236 237	N CA	GLU GLU	A A	533 <b>533</b>	25.876 25.835	52.753 <b>51.708</b>	71.337 72.339	1.00 14.65 1.00 13.13
ATOM 4 ATOM 4 ATOM 4	236 237 238	N CA C	GLU GLU GLU	A A A	533 533 533	25.876 25.835 26.497	52.753 51.708 52.181	71.337 72.339 <b>73.614</b>	1.00 14.65 1.00 13.13 1.00 19.42
ATOM 4 ATOM 4 ATOM 4 ATOM 4	236 237 238 239	N CA C	GLU GLU GLU	A A A	533 533 533 533	25.876 25.835 26.497 25.964	52.753 51.708 52.181 52.028	71.337 72.339 73.614 74.725	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25
ATOM 4 ATOM 4 ATOM 4 ATOM 4 ATOM 4	236 237 238 239 240	N CA C O CB	GLU GLU GLU GLU	A A A A	533 533 533 533 533	25.876 25.835 26.497 25.964 26.547	52.753 51.708 52.181 52.028 50.464	71.337 72.339 73.614 74.725 71.780	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22
ATOM 4 ATOM 4 ATOM 4 ATOM 4 ATOM 4 ATOM 4	236 237 238 239 240 241	N CA C O CB CG	GLU GLU GLU GLU GLU	A A A A	533 533 533 533 533 533	25.876 25.835 26.497 25.964 26.547 25.712	52.753 51.708 52.181 52.028 50.464 49.829	71.337 72.339 73.614 74.725 71.780 70.637	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87
ATOM 4 ATOM 4 ATOM 4 ATOM 4 ATOM 4 ATOM 4 ATOM 4	236 237 238 239 240 241	N CA C O CB CG CD	GLU GLU GLU GLU GLU GLU	A A A A A	533 533 533 533 533 533 533	25.876 25.835 26.497 25.964 26.547 25.712 24.531	52.753 51.708 52.181 52.028 50.464 49.829 49.055	71.337 72.339 73.614 74.725 71.780 70.637 71.162	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99
ATOM 4	236 237 238 239 240 241 242 243	N CA C O CB CG CD	GLU GLU GLU GLU GLU GLU	A A A A A A	533 533 533 533 533 533 533 533	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49
ATOM 4	236 237 238 239 240 241 242 243	N CA C O CB CG CD OE1	GLU GLU GLU GLU GLU GLU GLU	A A A A A A A	533 533 533 533 533 533 533 533 533	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 16.24
ATOM 4	236 237 238 239 240 241 242 243	N CA C O CB CG CD	GLU GLU GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A	533 533 533 533 533 533 533 533 533 533	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 16.24 1.00 15.22
ATOM 4	236 237 238 239 240 241 242 243 244	N CA C O CB CG CD OE1	GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A	533 533 533 533 533 533 533 533 533 533	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 16.24
ATOM 4	236 237 238 239 240 241 242 243 244 245	N CA C O CB CG CD OE1 OE2 N CA	GLU GLU GLU GLU GLU GLU GLU GLU GLU	A A A A A A A A A A	533 533 533 533 533 533 533 533 533 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 16.24 1.00 15.22
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247	N CA C O CB CG CD OE1 OE2 N CA	GLU GLU GLU GLU GLU GLU GLU ILE ILE	A A A A A A A A A A	533 533 533 533 533 533 533 533 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 14.94
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248	N CA C O CB CG CD OE1 OE2 N CA	GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE	A A A A A A A A A A A	533 533 533 533 533 533 533 533 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 14.04
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249	N CA C O CB CG CD OE1 OE2 N CA C	GLU	A A A A A A A A A A A	533 533 533 533 533 533 533 533 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 14.04 1.00 17.42 1.00 17.98
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250	N CA C O CB CG CD OE1 OE2 N CA C C O CB	GLU GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE ILE	A A A A A A A A A A A A A A A A	533 533 533 533 533 533 533 533 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.98 1.00 13.41
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251	N CA C O CB CG CD OE1 OE2 N CA C O CB	GLU GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE ILE	A A A A A A A A A A A A	533 533 533 533 533 533 533 534 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733 30.680	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461 54.387	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557 75.216	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.98 1.00 13.41 1.00 15.34
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252	N CA C O CB CG CD OE1 OE2 N CA C CB CG1 CG2 CD1	GLU	AAAAAAAAAAAAAAA	533 533 533 533 533 533 533 534 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733 30.680 32.003	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461 54.387 52.906	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557 75.216 72.825	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.42 1.00 17.98 1.00 13.41 1.00 15.34 1.00 17.39
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253	N CA C O CB CCG OE1 OE2 N CA C C C C C C C C C C C C C C C C C	GLU GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE ILE ILE ILE ARG	AAAAAAAAAAAAAAAA	533 533 533 533 533 533 533 534 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733 30.680 32.003 27.310	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461 54.387 52.906 55.402	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557 75.216 72.825 74.475	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.98 1.00 13.41 1.00 15.34 1.00 17.39 1.00 14.39
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254	N CA C C C C C C C C C C C C C C C C C C	GLU GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE ILE ILE ARG ARG	AAAAAAAAAAAAAAAA	533 533 533 533 533 533 533 534 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733 30.680 32.003 27.310 26.611	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461 54.387 52.906 55.402 56.511	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557 75.216 72.825 74.475 75.135	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.42 1.00 17.98 1.00 13.41 1.00 15.34 1.00 17.39 1.00 14.39 1.00 17.35
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255	N CA C C C C C C C C C C C C C C C C C C	GLU GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE ILE ARG ARG	AAAAAAAAAAAAAAAAA	533 533 533 533 533 533 533 534 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733 30.680 32.003 27.310 26.611 25.347	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461 54.387 52.906 55.402 56.511 56.016	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557 75.216 72.825 74.475 75.135 75.868	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.42 1.00 17.98 1.00 13.41 1.00 15.34 1.00 17.39 1.00 14.39 1.00 14.39 1.00 14.54
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255	N CA C C C C C C C C C C C C C C C C C C	GLU GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE ILE ARG ARG ARG	AAAAAAAAAAAAAAAAA	533 533 533 533 533 533 533 534 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733 30.680 32.003 27.310 26.611 25.347 24.998	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461 54.387 52.906 55.402 56.511 56.016 56.382	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557 75.216 72.825 74.475 75.135 75.868 76.973	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.42 1.00 17.98 1.00 13.41 1.00 15.34 1.00 17.39 1.00 14.39 1.00 14.54 1.00 15.05
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 255 256 257	N CA C C C C C C C C C C C C C C C C C C	GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE ILE ARG ARG ARG ARG	AAAAAAAAAAAAAAAAAA	533 533 533 533 533 533 533 534 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733 30.680 32.003 27.310 26.611 25.347 24.998 26.232	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461 54.387 52.906 55.402 56.511 56.016 56.382 57.576	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557 75.216 72.825 74.475 75.135 75.868 76.973 74.108	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.42 1.00 17.42 1.00 17.43 1.00 17.39 1.00 14.39 1.00 14.39 1.00 14.54 1.00 15.05 1.00 16.26
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 255 256 257	N CA C C C C C C C C C C C C C C C C C C	GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE ILE ARG ARG ARG ARG	AAAAAAAAAAAAAAAAAAA	533 533 533 533 533 533 533 533 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733 30.680 32.003 27.310 26.611 25.347 24.998 26.232 25.583	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461 54.387 52.906 55.402 56.511 56.016 56.382 57.576 58.826	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557 75.216 72.825 74.475 75.135 75.868 76.973 74.108 74.730	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.42 1.00 17.42 1.00 17.39 1.00 14.39 1.00 14.39 1.00 14.39 1.00 14.54 1.00 15.05 1.00 16.26 1.00 8.73
ATOM 4	236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 255 256 257 258 259	N CA C C C C C C C C C C C C C C C C C C	GLU GLU GLU GLU GLU GLU GLU ILE ILE ILE ILE ARG ARG ARG ARG	AAAAAAAAAAAAAAAAAAA	533 533 533 533 533 533 533 533 534 534	25.876 25.835 26.497 25.964 26.547 25.712 24.531 24.395 23.625 27.686 28.495 27.793 27.677 29.926 30.733 30.680 32.003 27.310 26.611 25.347 24.998 26.232	52.753 51.708 52.181 52.028 50.464 49.829 49.055 48.722 48.805 52.747 53.265 54.420 54.447 53.655 52.461 54.387 52.906 55.402 56.511 56.016 56.382 57.576	71.337 72.339 73.614 74.725 71.780 70.637 71.162 72.319 70.267 73.415 74.512 75.228 76.461 74.077 73.557 75.216 72.825 74.475 75.135 75.868 76.973 74.108	1.00 14.65 1.00 13.13 1.00 19.42 1.00 15.25 1.00 13.22 1.00 9.87 1.00 21.99 1.00 18.49 1.00 15.22 1.00 15.22 1.00 14.94 1.00 17.42 1.00 17.42 1.00 17.42 1.00 17.43 1.00 17.39 1.00 14.39 1.00 14.39 1.00 14.54 1.00 15.05 1.00 16.26

ATOM	4261	CZ	ARG	Α	535	26.049	62.043	74.761	1.00 26.20
ATOM	4262	NH1	ARG	Α	535	27.354	61.765	74.769	1.00 20.26
ATOM	4263	NH2	ARG	A	535	25.636	63.189	75.286	1.00 19.91
ATOM					536			75.233	1.00 11.71
	4264	N				24.632	55.126		
ATOM	4265	CA			536	23.462	54.627	75.876	1.00 9.63
MOTA	4266	C	PHE	Α	536	23.825	54.092	77.233	1.00 13.77
ATOM	4267	0	PHE	Α	536	23.256	54.497	78.231	1.00 13.81
MOTA	4268	CB			536	22.906	53.471	75.016	1.00 10.66
ATOM	4269	CG			536	21.865	52.621	75.710	1.00 14.64
MOTA	4270		PHE			20.699	53.158	76.256	1.00 13.81
ATOM	4271	CD2	PHE	A	536	22.052	51.242	75.840	1.00 19.23
MOTA	4272	CE1	PHE	Α	536	19.762	52.325	76.877	1.00 14.23
MOTA	4273	CE2	PHE	Α	536	21.127	50.395	76.457	1.00 16.53
ATOM	4274	CZ	PHE	Α	536	19.960	50.945	76.984	1.00 11.63
ATOM	4275	N			537	24.750	53.131	77.282	1.00 12.89
ATOM	4276	CA			537	25.110	52.536	78.577	1.00 11.92
MOTA	4277	C			537	25.734	53.520	79.575	1.00 16.03
MOTA	4278	0	ARG	Α	537	25.525	53.436	80.793	1.00 10.71
MOTA	4279	CB	ARG	Α	537	25.949	51.253	78.505	1.00 11.85
ATOM	4280	CG	ARG	Α	537	25.274	50.113	77.776	1.00 8.59
ATOM	4281	CD			537	26.142	48.857	77.547	1.00 17.16
		NE			537	25.233		76.992	
ATOM	4282						47.845		1.00 16.12
MOTA	4283	CZ			537	24.869	47.824	75.716	1.00 25.23
ATOM	4284	NH1	ARG	Α	537	25.414	48.641	74.802	1.00 13.55
ATOM	4285	NH2	ARG	Α	537	23.946	46.947	75.356	1.00 16.52
ATOM	4286	N	TRP	A	538	26.544	54.451	79.060	1.00 13.16
MOTA	4287	CA	TRP	Α	538	27.170	55.440	79.907	1.00 10.77
ATOM	4288	C	TRP			26.079	56.286	80.532	1.00 13.43
						26.048			
ATOM	4289	0	TRP				56.509	81.736	1.00 13.45
MOTA	4290	CB	TRP			28.036	56.318	78.996	1.00 12.97
MOTA	4291	CG	TRP	A	538	28.489	57.611	79.604	1.00 12.46
ATOM	4292	CD1	TRP	A	538	28.330	58.807	79.019	1.00 13.56
MOTA	4293	CD2	TRP	Α	538	29.199	57.826	80.857	1.00 11.95
ATOM	4294	NE1	TRP	Α	538	28.932	59.757	79.801	1.00 12.84
ATOM	4295	CE2	TRP			29.455	59.208	80.938	1.00 12.68
ATOM	4296	CE3	TRP			29.667	57.000	81.914	1.00 11.87
ATOM	4297	CZ2	TRP			30.115	59.780	82.024	1.00 10.55
ATOM	4298	CZ3	TRP			30.334	57.557	82.994	1.00 12.97
MOTA	4299	CH2	TRP	Α	538	30.537	58.953	83.046	1.00 14.62
ATOM	4300	N	LEU	Α	539	25.160	56.761	79.714	1.00 8.88
MOTA	4301	CA	LEU	Α	539	24.132	57.592	80.310	1.00 11.52
MOTA	4302	C	LEU	A	539	23.249	56.878	81.335	1.00 17.64
ATOM	4303	0	LEU			22.775	57.470	82.308	1.00 15.29
ATOM	4304	СВ	LEU			23.253	58.271	79.251	1.00 13.68
	4305							78.323	
ATOM		CG	LEU			23.977	59.247		1.00 15.24
MOTA	4306		LEU			22.989	59.923	77.388	1.00 13.27
MOTA	4307	CD2	LEU			24.693	60.312	79.121	1.00 13.80
MOTA	4308	N	ARG	Α	540	22.988	55.583	81.115	1.00 14.05
MOTA	4309	CA	ARG	Α	540	22.176	54.850	82.067	1.00 11.62
ATOM	4310	С	ARG				54.792	83.418	1.00 13.27
ATOM	4311	ō	ARG				54.942	84.488	1.00 12.86
MOTA	4312	CB	ARG			21.883	53.426	81.584	1.00 12.88
MOTA	4313	CG	ARG			20.894	53.325	80.408	1.00 8.76
MOTA	4314	CD	ARG			20.453	51.857	80.281	1.00 14.08
MOTA	4315	NE	ARG	Α	540	19.442	51.552	81.288	1.00 11.93
MOTA	4316	CZ	ARG	Α	540	18.856	50.391	81.486	1.00 16.72
MOTA	4317		ARG			19.145	49.317	80.774	1.00 16.31
ATOM	4318		ARG			17.926	50.330	82.416	1.00 9.86
ATOM	4319	N	TEA			24.189	54.546	83.338	1.00 10.69
ATOM	4320	CA	LEU			25.036	54.432	84.526	1.00 9.89
MOTA	4321	С	LEU	A	541	25.017	55.712	85.353	1.00 12.38

ATOM	4322	0	LEU	Α	541	24.961	55.749	86.598	1.00 12.85
MOTA	4323	CB	LEU	Α	541	26.482	54.119	84.074	1.00 8.98
ATOM	4324	CG	LEU			27.519	53.986	85.194	1.00 13.06
ATOM	4325	CD1				27.144	52.889	86.196	1.00 11.30
ATOM	4326		LEU			28.904	53.697	84.606	1.00 11.15
ATOM	4327	N	CYS			25.097	56.800	84.603	1.00 14.91
ATOM	4328	CA	CYS			25.037	58.147	85.153	
									1.00 15.42
ATOM	4329	C	CYS			23.719	58.436	85.881	1.00 12.87
ATOM	4330	0	CYS			23.689	58.913	87.019	1.00 13.42
ATOM	4331	CB	CYS			25.234	59.166	83.987	1.00 14.29
MOTA	4332	SG	CYS	-		26.987	59.258	83.516	1.00 15.48
MOTA	4333	N	ILE			22.620	58.161	85.188	1.00 11.12
MOTA	4334	CA	ILE			21.287	58.388	85.723	1.00 12.92
ATOM	4335	С	ILE			21.034	57.514	86.912	1.00 15.64
MOTA	4336	0	ILE			20.565	57.959	87.965	1.00 14.40
ATOM	4337	CB	ILE	Α	543	20.193	58.168	84.670	1.00 14.69
MOTA	4338	CG1	ILE	Α	543	20.350	59.208	83.580	1.00 14.31
MOTA	4339	CG2	ILE	Α	543	18.785	58.292	85.281	1.00 11.05
MOTA	4340	CD1	ILE	Α	543	20.139	60.651	84.095	1.00 13.56
ATOM	4341	N	GLN	Α	544	21.362	56.237	86.729	1.00 13.09
MOTA	4342	CA	GLN	A	544	21.144	55.310	87.829	1.00 12.90
ATOM	4343	C	GLN	A	544	22.017	55.629	89.015	1.00 16.30
ATOM	4344	0	GLN			21.649	55.299	90.140	1.00 12.81
ATOM	4345	CB	GLN			21.287	53.846	87.396	1.00 14.77
ATOM	4346	CG	GLN			20.159	53.374	86.449	1.00 13.43
ATOM	4347	CD	GLN		_	20.399	51.967	85.889	1.00 16.60
ATOM	4348	OE1	GLN			20.048	51.639	84.754	1.00 18.63
ATOM	4349	NE2	GLN			20.976	51.100	86.695	1.00 7.00
ATOM	4350	N	SER			23.143	56.296	88.748	1.00 13.80
ATOM	4351	CA	SER			24.058	56.712	89.799	1.00 13.00
		CA	SER			23.715	58.091	90.368	1.00 13.01
ATOM	4352	0				24.429	58.656	91.189	1.00 17.31
ATOM	4353		SER						
ATOM	4354	CB	SER			25.495	56.649	89.330 89.138	1.00 14.26
ATOM	4355	OG	SER			25.735	55.273		1.00 15.74
MOTA	4356	N	LYS			22.586	58.609	89.924	1.00 13.25
ATOM	4357	CA	LYS			22.029	59.857	90.370	1.00 14.37
MOTA	4358	C	LYS			22.771	61.109	89.963	1.00 16.71
ATOM	4359	0	LYS			22.770	62.106	90.698	1.00 16.30
MOTA	4360	CB	LYS			21.850	59.890	91.878	1.00 15.93
ATOM	4361	CG	LYS			21.320	58.602	92.470	1.00 16.80
MOTA	4362	CD	LYS			19.919	58.370	91.982	1.00 13.30
ATOM	4363	CE	LYS			19.280	57.148	92.617	1.00 24.82
MOTA	4364	NZ	LYS			18.052	56.742	91.905	1.00 17.92
MOTA	4365	N	TRP			23.418	61.104	88.827	1.00 15.72
MOTA	4366	CA	TRP	A	547	24.103	62.319	88.438	1.00 16.24
ATOM	4367	С	TRP			23.132	63.246	87.727	1.00 18.78
ATOM	4368	0	TRP			22.760	63.007	86.605	1.00 16.35
MOTA	4369	CB	TRP	A	547	25.261	61.999	87.505	1.00 15.42
ATOM	4370	CG	TRP	A	547	26.211	63.156	87.344	1.00 16.84
MOTA	4371	CD1	TRP	Ā	547	26.177	64.386	87.949	1.00 18.62
MOTA	4372	CD2	TRP	Α	547	27.349	63.140	86.479	1.00 15.94
MOTA	4373	NE1	TRP	Α	547	27.267	65.115	87.543	1.00 16.22
MOTA	4374	CE2				27.997	64.380	86.629	1.00 18.06
ATOM	4375		TRP			27.900	62.159	85.647	1.00 16.57
ATOM	4376		TRP			29.186	64.662	85.928	1.00 16.68
ATOM	4377	CZ3				29.068	62.459	84.966	1.00 19.03
ATOM	4378	CH2	TRP			29.693	63.709	85.079	1.00 18.04
ATOM	4379	N	GLU			22.706	64.327	88.376	1.00 13.95
ATOM	4380	CA	GLU			21.745	65.238	87.780	1.00 13.33
MOTA	4381	C	GLU			22.176	65.856	86.468	1.00 13.21
ATOM	4382	0	GLU			21.352	66.149	85.617	1.00 17.27
ALUM	7302	J	GHU	~	240	41.334	00.147	02.01/	T.00 TO.TO

ATOM	4383	CB	GLU	A	548	21.375	66.370	88.771	1.00 15.29
ATOM	4384	CG	GLU	A	548	20.751	65.878	90.109	1.00 19.42
MOTA	4385	CD	GLU	Α	548	20.207	67.018	90.953	1.00 33.00
MOTA	4386	OE1	GLU	Α	548	19.775	68.057	90.492	1.00 46.88
ATOM	4387		GLU			20.224	66.791	92.239	1.00 30.89
ATOM	4388	N	ASP			23.477	66.105	86.285	1.00 17.99
ATOM	4389	CA	ASP			23.929	66.735	85.054	1.00 10.58
ATOM	4390	C	ASP			23.666	65.896	83.853	1.00 12.02
ATOM	4391	ō	ASP			23.629	66.354	82.709	1.00 18.87
ATOM	4392	CB	ASP			25.426	67.034	85.126	1.00 11.36
ATOM	4393	CG	ASP			25.703	68.058	86.214	1.00 22.44
ATOM	4394		ASP			25.396	69.227	86.150	1.00 25.44
ATOM	4395		ASP			26.252	67.575	87.271	1.00 25.86
ATOM	4396	N	ALA			23.511	64.624	84.122	1.00 13.24
ATOM	4397	CA	ALA			23.269	63.709	83.004	1.00 14.70
ATOM	4398	C	ALA			21.845	63.707	82.473	1.00 17.89
	4399	0	ALA			21.598	63.132	81.389	1.00 15.28
ATOM			ALA			23.713	62.280	83.335	1.00 14.77
MOTA	4400	CB				20.926	64.308	83.251	1.00 16.18
MOTA	4401	N			551		64.377	82.914	1.00 16.05
MOTA	4402	CA			551	19.497		81.523	1.00 18.03
ATOM	4403	C	ILE			19.182	64.894		
ATOM	4404	0			551	18.441	64.290	80.736	1.00 19.01
ATOM	4405	CB			551	18.701	65.139	83.971	1.00 19.52
ATOM	4406	CG1				18.692	64.281	85.232	1.00 20.39
MOTA	4407	CG2	ILE			17.251	65.361	83.512	1.00 12.65
ATOM	4408	CD1				18.167	64.995	86.485	1.00 15.78
ATOM	4409	N	PRO			19.748	66.038	81.197	1.00 18.48
MOTA	4410	CA	PRO			19.487	66.600	79.888	1.00 16.36
ATOM	4411	C	PRO			20.084	65.736	78.795	1.00 19.64
MOTA	4412	0	PRO			19.551	65.606	77.700	1.00 16.94
MOTA	4413	CB	PRO			20.125	67.995	79.870	1.00 18.41
MOTA	4414	CG	PRO			21.001	68.070	81.116	1.00 24.69
MOTA	4415	CD	PRO			20.504	66.981	82.059	1.00 17.97
ATOM	4416	N	LEU			21.226	65.144	79.075	1.00 17.67
ATOM	4417	CA	LEU			21.852	64.302	78.072	1.00 15.47
MOTA	4418	C	LEU			20.940	63.101	77.795	1.00 19.23
ATOM	4419	0	LEU			20.704	62.655	76.681	1.00 16.64
MOTA	4420	CB	LEU			23.275	63.819	78.501	1.00 13.81
ATOM	4421	CG	LEU			24.239	64.905	79.002	1.00 19.25
MOTA	4422		LEU			25.606	64.289	79.247	1.00 17.04
ATOM	4423		LEU			24.412	65.997	77.955	1.00 18.39
ATOM	4424	N	ALA			20.440	62.529	78.867	1.00 17.65
ATOM	4425	CA	ALA			19.614	61.341	78.730	1.00 15.25
ATOM	4426	C	ALA			18.330	61.673	78.029	1.00 19.37
ATOM	4427	0	ALA			17.896	60.913	77.157	1.00 14.92
ATOM	4428	CB	ALA			19.415	60.697	80.094	1.00 12.41
MOTA	4429	N	LEU			17.746	62.821	78.410	1.00 14.59
MOTA	4430	CA	LEU			16.514	63.224	77.750	1.00 17.50
MOTA	4431	C	LEU			16.686	63.445	76.249	1.00 16.25
ATOM	4432	0	LEU			15.822	63.168	75.435	1.00 15.71
ATOM	4433	CB	LEU			15.921	64.531	78.318	1.00 18.40
ATOM	4434	CG	LEU			15.298	64.374	79.695	1.00 23.82
ATOM	4435		LEU			15.153	65.771	80.333	1.00 23.08
MOTA	4436		LEU			13.934	63.692	79.583	1.00 18.63
MOTA	4437	N	LYS			17.827	64.008	75.899	1.00 17.73
MOTA	4438	CA	LYS			18.139	64.330	74.536	1.00 15.70
ATOM	4439	C	LYS			18.285	63.076	73.702	1.00 19.09
ATOM	4440	0	LYS			17.690	62.959	72.626	1.00 19.08
MOTA	4441	CB	LYS			19.380	65.206	74.530	1.00 15.52
ATOM	4442	CG	LYS			19.729	65.769	73.163	1.00 41.74
ATOM	4443	CD	LYS	A	556	21.020	66.590	73.160	1.00 77.82

ATOM	4444	CB	LYS			21.851	66.449	71.883	1.00 79.74
MOTA	4445	NZ	LYS	A	556	22.446	67.709	71.404	1.00 60.52
MOTA	4446	N	MET	Α	557	19.089	62.128	74.207	1.00 15.27
ATOM	4447	CA	MET	Α	557	19.294	60.904	73.446	1.00 13.47
ATOM	4448	C	MET	Α	557	17.997	60.140	73.264	1.00 16.45
ATOM	4449	0	MET			17.723	59.507	72.253	1.00 15.63
ATOM	4450	СВ	MET			20.312	59.998	74.165	1.00 14.26
ATOM	4451	CG	MET			20.499	58.682	73.405	1.00 13.00
ATOM	4452	SD	MET			21.984	57.796	73.915	1.00 16.44
		CE	MET			22.027	56.574	72.596	1.00 12.39
ATOM	4453								1.00 12.39
ATOM	4454	N	ALA			17.200	60.181	74.327	
MOTA	4455	CA	ALA			15.955	59.438	74.323	1.00 17.49
ATOM	4456	C	ALA			14.968	59.922	73.292	1.00 23.08
ATOM	4457	0	ALA			14.221	59.153	72.723	1.00 21.14
ATOM	4458	CB	ALA			15.316	59.439	75.705	1.00 16.55
ATOM	4459	N	THR			14.951	61.220	73.082	1.00 18.89
ATOM	4460	CA	THR			13.980	61.798	72.186	1.00 19.50
ATOM	4461	С	THR	Α	559	14.542	62.125	70.830	1.00 22.12
MOTA	4462	0	THR	Α	559	13.804	62.219	69.862	1.00 23.28
ATOM	4463	CB	THR	Α	559	13.418	63.078	72.824	1.00 25.23
ATOM	4464	OG1	THR	Α	559	14.493	63.999	73.001	1.00 22.20
ATOM	4465	CG2	THR	Α	559	12.734	62.723	74.147	1.00 18.19
ATOM	4466	N	GLU	A	560	15.841	62.316	70.756	1.00 16.68
ATOM	4467	CA	GLU	Α	560	16.399	62.646	69.479	1.00 18.60
ATOM	4468	C	GLU			16.492	61.448	68.545	1.00 26.45
ATOM	4469	0	GLU			16.714	61.608	67.344	1.00 21.93
ATOM	4470	СВ	GLU			17.748	63.317	69.640	1.00 21.55
ATOM	4471	CG	GLU			17.623	64.757	70.136	1.00 38.31
ATOM	4472	CD	GLU			18.990	65.352	70.221	1.00 55.37
ATOM	4473	OE1				20.007	64.691	70.053	1.00 40.21
ATOM	4474	OE2	GLU			18.946	66.627	70.504	1.00 55.04
	4475	N N	GLN			16.344	60.251	69.101	1.00 20.47
MOTA		CA						68.291	1.00 20.47
ATOM	4476		GLN			16.340	59.043		
ATOM	4477	C	GLN			15.283	58.189	68.921	1.00 18.06 1.00 16.87
ATOM	4478	0	GLN			14.874	58.520	70.022	
MOTA	4479	CB	GLN			17.684	58.307	68.136	1.00 20.45
ATOM	4480	CG	GLN			18.341	58.001	69.495	1.00 21.17
ATOM	4481	CD	GLN			17.692	56.815	70.165	1.00 21.31
ATOM	4482		GLN			17.302	56.877	71.344	1.00 23.07
MOTA	4483	NE2	GLN			17.543	55.758	69.379	1.00 11.21
ATOM	4484	N	GLY			14.821	57.148	68.239	1.00 16.15
ATOM	4485	ÇA	GLY			13.758	56.36 <b>7</b>	68.827	1.00 14.79
MOTA	4486	С	GLY			13.919	54.872	68.750	1.00 17.42
ATOM	4487	0	GLY			12.941	54.134	68.842	1.00 22.06
MOTA	4488	N	ARG			15.152	54.424	68.598	1.00 18.35
MOTA	4489	CA	ARG			15.453	52.990	68.617	1.00 18.80
ATOM	4490	С	ARG			15.023	52.501	70.018	1.00 16.67
ATOM	4491	0	ARG	Α	563	15.518	52.925	71.085	1.00 14.27
ATOM	4492	CB	ARG	Α	563	16.949	52.812	68.321	1.00 16.78
MOTA	4493	CG	ARG	Ά	563	17.394	51.363	68.218	1.00 14.43
ATOM	4494	CD	ARG	A	563	18.911	51.276	68.095	1.00 15.41
ATOM	4495	NE	ARG	A	563	19.423	49.897	68.119	1.00 19.33
MOTA	4496	CZ	ARG	A	563	20.683	49.669	67.774	1.00 19.66
ATOM	4497		ARG	A	563	21.482	50.681	67.417	1.00 10.67
ATOM	4498	NH2				21.148	48.428	67.779	1.00 13.38
ATOM	4499	N	MET			14.003	51.648	70.069	1.00 13.84
ATOM	4500	CA	MET			13.447	51.247	71.369	1.00 13.05
ATOM	4501	C	MET			14.443	50.787	72.419	1.00 18.69
ATOM	4502	ō	MET			14.257	50.973	73.628	1.00 12.40
MOTA	4503	CB	MET			12.315	50.212	71.198	1.00 13.81
ATOM	4504	CG	MET			11.159	50.825	70.424	1.00 16.20
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MOTA	4505	SD	MET A		9.692	49.805	70.530	1.00 21.23
MOTA	4506	CE	MET A	564	10.114	48.581	69.265	1.00 17.64
MOTA	4507	N	LYS A	565	15.464	50.097	71.892	1.00 16.37
MOTA	4508	CA	LYS A	565	16.521	49.537	72.701	1.00 13.75
ATOM	4509	c	LYS A		17.129	50.623	73.582	1.00 16.90
ATOM	4510	0	LYS A		17.493	50.376	74.735	1.00 14.97
ATOM	4511	CB	LYS A		17.549	48.885	71.767	1.00 11.37
MOTA	4512	CG	LYS A	565	18.793	48.371	72.459	1.00 12.72
ATOM	4513	CD	LYS A	565	19.962	48.100	71.525	1.00 17.72
MOTA	4514	CE	LYS A	565	21.060	47.336	72.239	1.00 19.39
ATOM	4515	NZ	LYS A	565	22.030	46.721	71.308	1.00 15.47
ATOM	4516	N	PHE A		17.211	51.847	73.057	1.00 12.01
						52.912		
ATOM	4517	CA	PHE A		17.801		73.846	1.00 12.25
ATOM	4518	C	PHE A		16.739	53.770	74.509	1.00 15.74
ATOM	4519	0	PHE A		16.843	54.177	75.661	1.00 12.91
MOTA	4520	CB	PHE A	566	18.641	53.814	72.932	1.00 12.87
MOTA	4521	CG	PHE A	566	19.744	53.117	72.165	1.00 14.44
ATOM	4522	CD1	PHE A	566	20.465	52.053	72.714	1.00 13.84
MOTA	4523		PHE A		20.111	53.577	70.894	1.00 15.31
	4524		PHE A		21.510	51.434	72.014	1.00 13.86
MOTA								
MOTA	4525	CE2	PHE A		21.145	52.977	70.172	1.00 14.39
MOTA	4526	CZ	PHE A	566	21.849	51.910	70.744	1.00 15.76
ATOM	4527	N	THR A	567	15.721	54.095	73.724	1.00 16.10
MOTA	4528	CA	THR A	567	14.642	54.966	74.184	1.00 14.70
ATOM	4529	С	THR A	567	13.876	54.518	75.423	1.00 14.32
MOTA	4530	0	THR A		13.615	55.315	76.346	1.00 14.88
MOTA	4531	СВ	THR A		13.707	55.409	73.030	1.00 14.81
							72.148	1.00 15.28
ATOM	4532	OG1	THR A		14.465	56.204		
MOTA	4533	CG2	THR A		12.520	56.196	73.596	1.00 14.89
MOTA	4534	И	ARG A	568	13.478	53.245	75.412	1.00 12.20
ATOM	4535	CA	ARG A	568	12.697	52.764	76.533	1.00 13.57
ATOM	4536	С	ARG A	568	13.393	52.797	77.876	1.00 14.85
MOTA	4537	0	ARG A	568	12.896	53.312	78.861	1.00 14.39
ATOM	4538	CB	ARG A	568	12.133	51.400	76.218	1.00 13.49
ATOM	4539	CG	ARG A		11.021	51.467	75.155	1.00 14.02
ATOM	4540	CD	ARG A		10.387	50.098	74.884	1.00 9.84
ATOM	4541	NE	ARG A		9.662	49.607	76.063	1.00 13.61
	4542	CZ	ARG A		9.236	48.368	76.197	1.00 17.32
ATOM								
ATOM	4543	NH1			9.471	47.427	75.275	1.00 13.23
ATOM	4544	NH2	ARG A		8.566	48.053	77.293	1.00 13.32
ATOM	4545	N	PRO A	569	14.577	52.237	77.948	1.00 12.95
MOTA	4546	CA	PRO A	569	15.294	52.206	79.229	1.00 10.82
MOTA	4547	C	PRO A	569	15.810	53.574	79.653	1.00 15.13
ATOM	4548	0	PRO A	569	15.977	53.859	80.849	1.00 14.45
ATOM	4549	CB	PRO A	569	16.479	51.262	79.000	1.00 14.29
ATOM	4550	CG	PRO A	569	16.245	50.553	77.659	1.00 17.55
ATOM	4551	CD	PRO A		15.224	51.385	76.897	1.00 16.15
		N	LEU A		16.069	54.462	78.685	1.00 15.08
ATOM	4552							1.00 16.35
MOTA	4553	CA	LEU A		16.502	55.813	79.082	
MOTA	4554	С	LEU A		15.321	56.509	79.784	1.00 19.34
MOTA	4555	0	LEU A		15.401	57.045	80.898	1.00 16.13
MOTA	4556	CB	LEU A	570	16.944	56.615	77.840	1.00 16.51
ATOM	4557	CG	LEU A		18.372	56.269	77.386	1.00 18.67
ATOM	4558		LEU A		18.737	57.028	76.110	1.00 16.85
ATOM	4559		LEU A		19.392	56.601	78.486	1.00 14.01
	4560	N	PHE A		14.161	56.435	79.129	1.00 14.02
MOTA					12.978		79.732	1.00 14.62
ATOM	4561	CA	PHE A			57.007		
ATOM	4562	С	PHE A		12.684	56.323	81.054	1.00 18.94
MOTA	4563	0	PHE A		12.257	56.933	82.030	1.00 18.09
MOTA	4564	CB	PHE A	571	11.721	56.805	78.872	1.00 14.94
ATOM	4565	CG	PHE A	571	11.462	57.993	78.014	1.00 17.38

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MOTA	4566		PHE			11.035	59.194	78.591	1.00 18.00
MOTA	4567	CD2	PHE	Α	571	11.634	57.902	76.633	1.00 19.72
ATOM	4568		PHE			10.768	60.317	77.805	1.00 17.86
MOTA	4569	CE2	PHE	A	571	11.358	59.016	75.836	1.00 23.80
ATOM	4570	cz	PHE	A	571	10.933	60.213	76.422	1.00 22.47
MOTA	4571	N	LYS	Δ	572	12.839	55.023	81.080	1.00 14.21
ATOM	4572	CA	LYS			12.530	54.361	82.325	1.00 14.07
ATOM	4573	C	LYS	Α	572	13.476	54.788	83.444	1.00 16.22
ATOM	4574	0	LYS	Δ	572	13.123	54.998	84.620	1.00 16.74
MOTA	4575	CB	LYS			12.533	52.850	82.147	1.00 15.58
ATOM	4576	CG	LYS	Α	572	11.179	52.157	82.243	1.00 32.41
ATOM	4577	CD	LYS	Α	572	11.197	50.722	81.697	1.00 46.79
ATOM	4578	CE	LYS			11.249	50.620	80.160	1.00 56.38
ATOM	4579	NZ	LYS			11.823	49.373	79.593	1.00 42.31
ATOM	4580	N	ASP	Α	573	14.735	54.914	83.089	1.00 14.00
MOTA	4581	CA	ASP			15.671	55.286	84.148	1.00 15.33
ATOM	4582	C	ASP			15.394	56.675	84.662	1.00 15.63
ATOM	4583	0	ASP	Α	573	15.531	56.959	85.850	1.00 15.64
MOTA	4584	CB	ASP	Δ	573	17.137	55.288	83.627	1.00 14.94
			ASP						
ATOM	4585	CG				17.688	53.889	83.452	1.00 22.26
MOTA	4586	OD1	ASP	Α	573	17.054	52.891	83.773	1.00 18.66
MOTA	4587	OD2	ASP	Α	573	18.923	53.848	82.983	1.00 18.27
MOTA	4588	N	LEU	Δ	574	15.090	57.554	83.708	1.00 12.68
			LEU						1.00 11.33
MOTA	4589	CA				14.851	58.926	84.092	
ATOM	4590	С	LEU	Α	574	13.611	59.053	84.970	1.00 22.78
ATOM	4591	0	LEU	A	574	13.513	59.923	85.837	1.00 18.71
ATOM	4592	CB	LEU	А	574	14.682	59.802	82.863	1.00 10.39
		CG	LEU			15.953	60.021	82.061	1.00 16.41
MOTA	4593								
ATOM	4594	CD1	LEU	A	574	15.501	60.352	80.630	1.00 16.48
ATOM	4595	CD2	LEU	A	574	16.785	61.200	82.608	1.00 12.08
MOTA	4596	N	ALA	Α	575	12.638	58.173	84.726	1.00 17.79
	4597	CA	ALA			11.437	58.235	85.500	1.00 15.87
ATOM									
ATOM	4598	C	ALA			11.720	57.682	86.856	1.00 17.98
ATOM	4599	0	ALA	A	575	11.050	58.033	87.801	1.00 17.45
ATOM	4600	CB	ALA	Α	575	10.325	57.449	84.820	1.00 17.20
ATOM	4601	N	ALA	Δ	576	12.703	56.801	86.972	1.00 14.91
								88.272	1.00 12.59
ATOM	4602	CA	ALA			13.024	56.222		
ATOM	4603	С	ALA	A	576	13.930	57.135	89.097	1.00 19.97
ATOM	4604	0	ALA	A	576	14.140	56.920	90.281	1.00 22.87
ATOM	4605	CB	ALA	Α	576	13.732	54.881	88.146	1.00 16.01
	4606	N	PHE			14.474	58.152	88.469	1.00 15.13
ATOM									
ATOM	4607	CA	PHE	A	577	15.337	59.105	89.161	1.00 15.19
ATOM	4608	С	PHE	A	577	14.412	60.219	89.660	1.00 19.07
ATOM	4609	0	PHE	Α	577	13.790	60.932	88.868	1.00 16.74
ATOM	4610	СВ	PHE			16.447	59.652	88.210	1.00 14.02
MOTA	4611	CG	PHE			17.494	60.595	88.820	1.00 15.39
ATOM	4612	CD1	PHE	Α	577	17.678	60.707	90.202	1.00 17.32
MOTA	4613	CD2	PHE	A	577	18.295	61.380	87.983	1.00 15.42
MOTA	4614		PHE			18.646	61.570	90.727	1.00 18.05
MOTA	4615		PHE			19.272	62.236	88.483	1.00 18.23
MOTA	4616	CZ	PHE	Α	577	19.442	62.330	89.866	1.00 18.02
MOTA	4617	N	ASP	Α	578	14.285	60.335	90.983	1.00 19.21
MOTA	4618	CA	ASP			13.394	61.327	91.584	1.00 19.27
		C	ASP					90.981	1.00 18.95
MOTA	4619					13.568	62.692		
MOTA	4620	0	ASP			12.577	63.347	90.660	1.00 18.48
MOTA	4621	CB	ASP	Α	578	13.457	61.342	93.130	1.00 28.60
ATOM	4622	CG	ASP			14.714	61.992	93.690	1.00 55.79
			ASP			15.779	62.135	93.064	1.00 45.74
ATOM	4623								
MOTA	4624		ASP			14.512	62.401	94.929	1.00 67.85
MOTA	4625	N	LYS	A	579	14.839	63.083	90.791	1.00 17.12
ATOM	4626	CA	LYS	Α	579	15.185	64.352	90.194	1.00 13.88

3 MOM	4627		LYS	7	E70	14.693	64.569	88.758	1.00 21.03
ATOM	4627	C							
MOTA	4628	0	LYS			14.338	65.689	88.386	1.00 20.91
ATOM	4629	CB	LYS	Α	579	16.669	64.621	90.293	1.00 13.46
ATOM	4630	CG	LYS	Α	579	17.159	64.570	91.724	1.00 33.01
	4631	CD	LYS			16.890	65.878	92.442	1.00 55.78
ATOM									
ATOM	4632	CE	LYS	Α	579	16.292	65.662	93.816	1.00 58.11
ATOM	4633	NZ	LYS	Α	579	17.121	66.260	94.867	1.00 54.50
ATOM	4634	N	SER	Α	580	14.646	63.553	87.897	1.00 14.45
	4635	CA	SER			14.187	63.844	86.540	1.00 13.57
ATOM									
MOTA	4636	С	SER			12.798	63.298	86.228	1.00 20.81
MOTA	4637	0	SER	Α	580	12.313	63.384	85.103	1.00 19.66
MOTA	4638	CB	SER	Α	580	15.113	63.091	85.601	1.00 12.97
MOTA	4639	OG	SER			15.350	61.809	86.186	1.00 17.95
						12.184	62.664	87.196	1.00 16.52
MOTA	4640	N	HIS						
MOTA	4641	CA	HIS	A,	581	10.897	62.042	86.971	1.00 16.52
MOTA	4642	С	HIS	А	581	9.816	62.866	86.281	1.00 21.39
ATOM	4643	0	HIS	Α	581	9.250	62.522	85.234	1.00 18.75
ATOM	4644	CB	HIS			10.389	61.487	88.289	1.00 15.62
MOTA	4645	CG	HIS			9.034	60.927	88.100	1.00 22.66
MOTA	4646	ND1	HIS	Α	581	7.914	61.748	88.110	1.00 27.83
ATOM	4647	CD2	HIS	Α	581	8.623	59.644	87.899	1.00 27.04
ATOM	4648	CE1	HIS	Α	581	6.843	60.975	87.926	1.00 27.26
			HIS			7.242	59.715	87.789	1.00 28.84
MOTA	4649								
ATOM	4650	N	ASP			9.515	63.986	86.884	1.00 17.59
MOTA	4651	CA	ASP	A	582	8.491	64.831	86.322	1.00 20.99
ATOM	4652	С	ASP	Α	582	8.831	65.284	84.927	1.00 24.43
MOTA	4653	0	ASP			8.013	65.343	84.030	1.00 21.69
		CB				8.331	66.085	87.197	1.00 25.08
MOTA	4654		ASP						
ATOM	4655	CG	ASP			7.626	65.730	88.466	1.00 30.98
ATOM	4656	OD1	ASP	А	582	7.129	64.638	88.645	1.00 36.19
ATOM	4657	OD2	ASP	Α	582	7.659	66.680	89.359	1.00 38.67
ATOM	4658	N	GLN			10.075	65.649	84.762	1.00 20.38
						10.451	66.076	83.465	1.00 19.54
ATOM	4659	CA	GLN						
ATOM	4660	C	GLN			10.423	64.938	82.431	1.00 23.45
ATOM	4661	0	GLN	Α	583	10.182	65.148	81.229	1.00 23.51
ATOM	4662	CB	GLN	Α	583	11.857	66.642	83.573	1.00 19.50
ATOM	4663	CG	GLN	Α	583	12.188	67.300	82.240	1.00 21.61
	4664	CD	GLN			13.503	68.019	82.370	1.00 44.67
ATOM								83.357	1.00 39.11
ATOM	4665	OE1				14.236	67.818		
ATOM	4666	NE2	GLN	A	583	13.778	68.840	81.373	1.00 40.61
ATOM	4667	N	ALA	Α	584	10.706	63.718	82.866	1.00 18.70
ATOM	4668	CA	ALA	A	584	10.700	62.595	81.927	1.00 15.00
ATOM	4669	C	ALA			9.307	62.411	81.375	1.00 19.16
	4670	o	ALA			9.101	62.211	80.176	1.00 19.25
ATOM									1.00 13.44
ATOM	4671	CB	ALA			11.043	61.288	82.642	
ATOM	4672	N	VAL	А	585	8.356	62.452	82.316	1.00 15.46
MOTA	4673	CA	VAL	A	585	6.941	62.258	81.999	1.00 18.57
ATOM	4674	C	VAL	А	585	6.418	63.339	81.064	1.00 25.46
		ō	VAL			5.743	63.106	80.055	1.00 23.63
ATOM	4675								
ATOM	4676	CB	VAL			6.090	62.120	83.274	1.00 23.07
ATOM	4677	CG1	VAL	A	585	4.610	62.298	82.946	1.00 23.53
MOTA	4678	CG2	VAL	A	585	6.340	60.775	83.966	1.00 21.15
MOTA	4679	N	ARG	A	586	6.792	64.564	81.405	1.00 23.81
ATOM	4680	CA	ARG			6.395	65.688	80.615	1.00 22.41
								79.223	1.00 22.13
MOTA	4681	C	ARG			6.974	65.628		
MOTA	4682	0	ARG	A	586	6.283	65.909	78.254	1.00 20.69
ATOM	4683	CB	ARG	A	586	6.695	67.000	81.329	1.00 21.27
ATOM	4684	CG	ARG	A	586	6.573	68.251	80.461	1.00 39.32
ATOM	4685	CD			586	7.134	69.519	81.129	1.00 45.58
						7.498	69.270	82.525	1.00 68.78
ATOM	4686	NE			586				
MOTA	4687	CZ	AKG	A	586	8.712	69.427	83.074	1.00 82.97

N TOM	1600	MET	ARG	7	596	9.767	69.873	82.357	1.00 50.55
ATOM	4688								1.00 31.22
ATOM	4689		ARG			8.842	69.129	84.383	
MOTA	4690	N	THR			8.231	65.247	79.095	1,00 19.40
ATOM	4691	CA	THR	Α	587	8.856	65.157	77.781	1.00 18.84
ATOM	4692	С	THR	Α	587	8.150	64.170	76.882	1.00 20.71
ATOM	4693	0	THR	А	587	7.885	64.391	75.702	1.00 23.03
ATOM	4694	CB	THR	Α	587	10.313	64.746	77.975	1.00 23.70
ATOM	4695	OG1				10.887	65.693	78.846	1.00 21.83
ATOM	4696	CG2				11.048	64.672	76.654	1.00 21.38
ATOM	4697	N	TYR			7.822	63.043	77.464	1.00 21.74
						7.137	62.033	76.693	1.00 19.43
ATOM	4698	CA	TYR						
MOTA	4699	C	TYR			5.808	62.573	76.151	1.00 24.31
ATOM	4700	0	TYR	Α	588	5.450	62.483	74.963	1.00 26.68
ATOM	4701	CB	TYR	Α	588	6.846	60.854	77.638	1.00 18.46
ATOM	4702	CG	TYR	A	588	5.842	59.904	77.014	1.00 21.76
MOTA	4703	CD1	TYR	Α	588	6.169	59.136	75.891	1.00 22.44
ATOM	4704	CD2	TYR	A	588	4.549	59.808	77.540	1.00 22.19
ATOM	4705	CE1	TYR			5.217	58.274	75.335	1.00 26.93
ATOM	4706	CE2	TYR			3.584	58.961	76.999	1.00 19.19
		CZ	TYR			3.936	58.191	75.890	1.00 25.45
MOTA	4707								
MOTA	4708	OH	TYR			3.008	57.335	75.359	1.00 24.42
MOTA	4709	N	GLN			5.039	63.110	77.088	1.00 23.42
MOTA	4710	CA	GLN	A	589	3.727	63.642	76.762	1.00 22.93
MOTA	4711	C	GLN	Ά	589	3.806	64.594	75.596	1.00 20.18
MOTA	4712	0	GLN	A	589	2.957	64.626	74.707	1.00 23.55
ATOM	4713	CB	GLN	Α	589	3.139	64.384	77.981	1.00 25.07
ATOM	4714	CG	GLN	Α	589	2.683	63.449	79.119	1.00 21.54
ATOM	4715	CD	GLN			1.470	62.587	78.765	1.00 41.81
ATOM	4716		GLN			1.197	62.264	77.606	1.00 37.70
MOTA	4717	NE2	GLN			0.721	62.186	79.779	1.00 58.94
ATOM	4718	N	GLU			4.844	65.400	75.649	1.00 17.93
			GLU			5.097	66.416	74.644	1.00 19.01
ATOM	4719	CA					65.826	73.363	1.00 26.93
ATOM	4720	C	GLU			5.566			1.00 23.86
ATOM	4721	0	GLU			5.393	66.453	72.312	
ATOM	4722	CB	GLU			6.176	67.452	75.021	1.00 20.73
ATOM	4723	CG	GLU			5.706	68.358	76.180	1.00 36.88
MOTA	4724	CD	GLU			6.810	69.187	76.769	1.00 62.73
MOTA	4725	OE1	GLU	Α	590	7.988	69.112	76.403	1.00 55.19
ATOM	4726	OE2	GLU	Α	590	6.341	69.975	77.718	1.00 40.10
MOTA	4727	N	HIS	Α	591	6.203	64.666	73.476	1.00 23.79
ATOM	4728	CA	HIS	Α	591	6.700	64.086	72.250	1.00 23.24
MOTA	4729	С	HIS	Α	591	5.818	63.013	71.689	1.00 20.50
ATOM	4730	0	HIS	А	591	5.965	62.619	70.541	1.00 24.92
ATOM	4731	СВ	HIS			8.076	63.446	72.481	1.00 22.84
MOTA	4732	CG	HIS			9.175	64.446	72.384	1.00 25.11
ATOM	4733		HIS			9.381	65.385	73.378	1.00 28.84
	4734		HIS			10.092	64.667	71.403	1.00 26.79
ATOM							66.147	72.984	1.00 27.18
MOTA	4735		HIS			10.408			
MOTA	4736		HIS			10.853	65.745	71.796	1.00 26.51
MOTA	4737	N	LYS			4.939	62.487	72.503	1.00 19.36
MOTA	4738	CA	LYS			4.202	61.366	71.988	1.00 19.14
MOTA	4739	С	LYS			3.553	61.382	70.613	1.00 28.03
ATOM	4740	0	LYS	A	592	3.592	60.409	69.856	1.00 23.29
MOTA	4741	CB	LYS	A	592	3.431	60.669	73.048	1.00 18.80
ATOM	4742	CG	LYS	A	592	2.321	61.545	73.519	1.00 26.37
ATOM	4743	CD			592	1.414	60.713	74.400	1.00 33.29
MOTA	4744	CE			592	0.018	61.301	74.523	1.00 45.98
ATOM	4745	NZ			592	-0.530	61.163	75.874	1.00 25.02
MOTA	4746	N			593	2.905	62.494	70.300	1.00 29.63
		CA			593	2.225	62.650	69.016	1.00 26.27
ATOM	4747					3.157	62.524	67.808	1.00 26.27
MOTA	4748	C	HIM	A	593	3.13/	02.344	57.000	20.27

ATOM	4749	0	ALA	Α	593	2.741	62.121	66.732	1.00 28.39
ATOM	4750	CB	ALA	Α	593	1.558	64.018	68.998	1.00 24.94
ATOM	4751	N	SER			4.420	62.891	67.988	1.00 21.56
ATOM	4752	CA	SER			5.404	62.867	66.930	1.00 22.18
ATOM	4753	C	SER			6.238	61.590	66.949	1.00 22.38
ATOM	4754	ō	SER			7.160	61.444	66.137	1.00 20.87
			SER			6.352	64.049	67.098	1.00 29.27
ATOM	4755	CB							
ATOM	4756	OG	SER			7.286	63.814	68.156	1.00 45.26
ATOM	4757	N	MET			5.922	60.678	67.858	1.00 17.72
ATOM	4758	CA	MET			6.732	59.453	67.945	1.00 17.90
MOTA	4759	С	MET			6.240	58.295	67.114	1.00 21.97
ATOM	4760	0	MET			5.105	58.257	66.683	1.00 26.36
ATOM	4761	СВ	MET			6.717	58.931	69.396	1.00 17.35
MOTA	4762	CG	MET			7.616	59.720	70.321	1.00 18.64
ATOM	4763	SD	MET	Α	595	7.451	59.068	71.999	1.00 25.54
ATOM	4764	CE	MET	А	595	7.775	60.523	72.990	1.00 32.21
ATOM	4765	N	HIS	A	596	7.066	57.284	66.954	1.00 15.02
ATOM	4766	CA	HIS	A	596	6.593	56.105	66.258	1.00 16.62
MOTA	4767	C	HIS	Α	596	5.458	55.524	67.111	1.00 19.77
MOTA	4768	0	HIS	Α	596	5.474	55.605	68.324	1.00 19.53
ATOM	4769	CB	HIS	Α	596	7.756	55.103	66.052	1.00 17.44
ATOM	4770	CG	HIS			7.280	53.844	65.414	1.00 20.36
ATOM	4771		HIS			7.474	53.623	64.059	1.00 22.76
ATOM	4772		HIS			6.582	52.790	65.937	1.00 19.37
ATOM	4773		HIS			6.928	52.443	63.770	1.00 21.23
ATOM	4774		HIS			6.375	51.935	64.879	1.00 22.61
ATOM	4775	N	PRO			4.425	54.948	66.507	1.00 19.72
ATOM	4776	CA	PRO			3.284	54.409	67.233	1.00 17.32
						3.515	53.268	68.221	1.00 17.32
ATOM	4777	C	PRO				53.266	69.277	1.00 22.24
ATOM	4778	O	PRO			2.887			1.00 20.88
ATOM	4779	CB	PRO			2.228	54.031	66.181	
ATOM	4780	CG	PRO			2.989	53.918	64.893	1.00 20.16
ATOM	4781	CD	PRO			4.195	54.843	65.045	1.00 19.53
ATOM	4782	N	VAL			4.381	52.340	67.895	1.00 17.95
ATOM	4783	CA	VAL			4.575	51.277	68.868	1.00 17.06
ATOM	4784	C	VAL			5.463	51.830	69.993	1.00 16.39
ATOM	4785	0	VAL			5.188	51.629	71.176	1.00 18.72
MOTA	4786	CB	VAL			5.175	50.039	68.180	1.00 20.87
MOTA	4787		VAL			5.739	48.974	69.142	1.00 15.98
ATOM	4788		VAL			4.169	49.498	67.132	1.00 17.75
ATOM	4789	N	THR			6.521	52.548	69.605	1.00 17.91
MOTA	4790	CA	THR			7.370	53.125	70.636	1.00 20.42
MOTA	4791	C	THR			6.544	53.965	71.615	1.00 25.40
MOTA	4792	Ο.	THR			6.683	53.931	72.848	1.00 18.93
MOTA	4793	CB	THR	A	599	8.436	53.999	69.997	1.00 17.80
MOTA	4794	OG1	THR	Α	599	9.082	53.238	68.989	1.00 19.92
MOTA	4795	CG2	THR	A		9.399	54.486	71.090	1.00 17.59
ATOM	4796	N	ALA	A	600	5.657	54.749	71.018	1.00 18.73
ATOM	4797	CA	ALA	Α	600	4.798	55.590	71.796	1.00 17.65
MOTA	4798	С	ALA	·A	600	3.971	54.764	72.739	1.00 20.00
MOTA	4799	0	ALA	A	600	3.867	55.053	73.932	1.00 21.50
ATOM	4800	CB	ALA	A	600	3.869	56.344	70.879	1.00 19.26
ATOM	4801	N	MET			3.344	53.731	72.218	1.00 17.31
ATOM	4802	CA	MET			2.539	52.928	73.126	1.00 15.28
ATOM	4803	C	MET			3.409	52.308	74.224	1.00 17.52
ATOM	4804	ō	MET			3.018	52.245	75.371	1.00 15.39
ATOM	4805	CB	MET			1.761	51.815	72.369	1.00 16.44
ATOM	4806	CG	MET			1.008	50.813	73.242	1.00 20.22
ATOM	4807	SD	MET			1.962	49.492	74.103	1.00 24.22
ATOM	4808	CE	MET			2.327	48.392	72.695	1.00 18.59
ATOM	4809	N	PEA			4.580	51.778	73.889	1.00 16.21
ALON	4000		- DEC	4.2	502	4.JUU	31.770	, 5.005	IV.DI

MOTA	4810	CA	LEU	A	602	5.389	51.117	74.924	1.00 16.19
MOTA	4811	C	LEU	A	602	5.940	52.055	76.027	1.00 18.15
MOTA	4812	0	LEU			5.962	51.722	77.214	1.00 18.36
MOTA	4813	CB	LEU	A	602	6.507	50.267	74.269	1.00 14.21
MOTA	4814	CG	LEU			5.987	49.058	73.508	1.00 18.02
ATOM	4815		LEU			7.100	48.467	72.642	1.00 17.78
ATOM	4816	CD2	LEU			5.502	48.030	74.515	1.00 21.84
ATOM	4817	N	VAL			6.426	53.224	75.617	1.00 15.71
ATOM	4818	CA	VAL			6.962	54.208	76.549	1.00 15.67
MOTA	4819	C	VAL			5.877	54.648	77.537	1.00 17.35
ATOM	4820	0	VAL			6.093	54.733	78.741	1.00 18.72
ATOM	4821	CB	VAL			7.665	55.345	75.807	1.00 19.16
ATOM	4822	CG1	VAL			8.035	56.477	76.764	1.00 15.61
ATOM	4823	CG2	VAL			8.943	54.837	75.115	1.00 17.56
ATOM	4824	N	GLY			4.661	54.851	77.027	1.00 14.92
ATOM	4825	CA	GLY			3.535	55.262	77.879	1.00 14.02
ATOM	4826	C	GLY			3.239	54.206	78.898	1.00 17.85
ATOM	4827	0	GLY			2.984	54.443	80.075	1.00 21.21
ATOM	4828	N	LYS			3.306	52.987	78.426	1.00 16.57
ATOM	4829	CA	LYS			3.127	51.873	79.330	1.00 18.08
ATOM	4830	C	LYS			4.251	51.892	80.348	1.00 22.76
ATOM	4831	0	LYS LYS			4.034	51.859	81.558 78.607	1.00 26.27 1.00 22.73
ATOM ATOM	4832 4833	CB CG	LYS			3.190 1.870	50.541 49.811	78.714	1.00 22.73
MOTA	4834	CD	LYS			1.919	48.377	78.211	1.00 57.40
ATOM	4835	CE	LYS			1.068	47.461	79.074	1.00 75.31
ATOM	4836	NZ	LYS			1.808	46.387	79.758	1.00 74.64
ATOM	4837	N	ASP			5.470	51.943	79.836	1.00 17.17
MOTA	4838	CA	ASP			6.607	51.972	80.718	1.00 16.61
ATOM	4839	C	ASP			6.442	53.059	81.738	1.00 19.46
MOTA	4840	0	ASP			6.790	52.848	82.884	1.00 19.57
ATOM	4841	CB	ASP			7.945	52.255	79.990	1.00 16.98
MOTA	4842	CG	ASP	Α	606	8.365	51.063	79.187	1.00 21.21
ATOM	4843	OD1	ASP	Α	606	7.944	49.933	79.376	1.00 20.21
MOTA	4844	OD2	ASP	A	606	9.189	51.355	78.249	1.00 18.07
ATOM	4845	N	LEU	Α	607	5.974	54.207	81.306	1.00 16.61
MOTA	4846	CA	LEU	A	607	5.863	55.352	82.211	1.00 20.64
MOTA	4847	C	LEU	A	607	4.586	55.384	83.026	1.00 27.05
MOTA	4848	0	LEU			4.361	56.274	83.862	1.00 23.83
MOTA	4849	CB	LEU			5.991	56.641	81.388	1.00 23.11
MOTA	4850	CG	LEU			7.377	57.301	81.464	1.00 28.84
ATOM	4851		LEU			8.508	56.323	81.711	1.00 29.33
ATOM	4852	CD2	LEU			7.650	58.116	80.214	1.00 19.22
MOTA	4853	N	LYS			3.739	54.409	82.739	1.00 21.45
ATOM	4854	CA	LYS			2.504	54.308	83.446	1.00 22.51
ATOM	4855	C	LYS LYS			1.657	55.529	83.202 84.076	1.00 31.79 1.00 34.10
MOTA	4856	O	LYS			0.933 2.810	56.008 54.200	84.918	1.00 34.10
ATOM ATOM	4857 4858	CB CG	LYS			3.190	52.782	85.308	1.00 45.51
ATOM	4859	CD	LYS			3.932	52.718	86.635	1.00 76.45
ATOM	4860	CE	LYS			4.251	51.291	87.078	1.00100.00
ATOM	4861	NZ	LYS			4.137	51.050	88.533	1.00100.00
ATOM	4862	N	VAL			1.781	56.084	82.021	1.00 29.53
ATOM	4863	CA	VAL			0.962	57.231	81.738	1.00 32.22
MOTA	4864	C	VAL			-0.257	56.755	80.958	1.00 47.38
ATOM	4865	ō	VAL			-0.150	55.800	80.186	1.00 49.22
ATOM	4866	СВ	VAL			1.679	58.328	80.966	1.00 38.27
ATOM	4867		VAL			3.188	58.240	81.067	1.00 38.12
ATOM	4868		VAL			1.227	58.313	79.515	1.00 39.79
ATOM	4869	N	ASP			-1.402	57.415	81.173	1.00 49.29
ATOM	4870	CA	ASP	A	610	-2.675	57.124	80.510	1.00 98.66

MOTA	4871	С	ASP	Δ	610	-3.541	56.207	81.365	1.00100.00
	4872	o	ASP			-3.950	56.568	82.470	1.00 78.31
ATOM			ASP				•	79.044	1.00100.00
MOTA	4873	CB				-2.550	56.631		
MOTA	4874	CG	ÁSP			-1.930	57.631	78.091	1.00100.00
ATOM	4875		ASP			-2.251	58.807	78.062	1.00 99.48
MOTA	4876	OD2	ASP			-1.019	57.111	77.288	1.00100.00
TER	4877		ASP	A	610				
MOTA	4878	ZN2+	ZN	Z	1	16.972	39.340	64.102	1.00 16.33
ATOM	4879	YB3+	YB	Y	1	42.669	51.366	99.201	1.00 18.06
ATOM	4880	YB3+	YB	Y	2	-13.732	57.497	52.155	0.50 46.53
ATOM	4881	YB3+	YB	Y	3	-10.443	58.443	52.469	0.50 30.25
ATOM	4882	N2	BES	В	1	13.712	41.186	63.145	1.00 25.72
ATOM	4883	Cl	BES		1	14.450	41.733	64.255	1.00 24.13
MOTA	4884	C6	BES		1	13.749	42.939	64.880	1.00 23.84
	4885	C7	BES		1	12.300	42.727	65.283	1.00 19.51
ATOM			BES		1	11.297	43.571	64.799	1.00 18.42
MOTA	4886	C8							1.00 10.42
MOTA	4887		BES		1	11.934	41.717	66.170	
MOTA	4888	C9	BES		1	9.990	43.454	65.227	1.00 16.90
MOTA	4889		BES		1	10.614	41.580	66.600	1.00 19.17
MOTA	4890	C10	BES	В	1	9.639	42.451	66.135	1.00 18.42
MOTA	4891	C2	BES	В	1	15.881	42.065	63.795	1.00 21.80
MOTA	4892	02	BES	В	1	16.369	41.004	62.999	1.00 18.60
MOTA	4893	C3	BES	В	1	16.741	42.156	65.063	1.00 23.33
ATOM	4894	03	BEŞ	В	1	16.932	41.185	65.803	1.00 25.68
MOTA	4895	N1	BES		1	17.280	43.376	65.250	1.00 21.90
ATOM	4896	C4	BES		1	18.157	43.613	66.390	1.00 24.18
ATOM	4897	C13			1	19.568	43.595	65.855	1.00 22.49
MOTA	4898			В	1	20.669	42.812	66.576	1.00 24.23
			BES		1	20.210	41.770	67.577	1.00 23.32
ATOM	4899				1	21.692	42.287	65.590	1.00 23.52
ATOM	4900		BES						1.00 25.70
MOTA	4901	C5	BES		1	17.840	45.000	67.053	
MOTA	4902	01	BES		1	17.160	45.848	66.348	1.00 22.63
MOTA	4903	04		В	1	18.206	45.226	68.192	1.00 26.52
ATOM	4904	CG	IMD	Ι	1	26.142	42.633	80.576	1.00 14.44
MOTA	4905	ND1	IMD	Ι	1	25.962	42.811	79.218	1.00 15.15
MOTA	4906	CD2	IMD	I	1	27.444	42.291	80.744	1.00 13.81
MOTA	4907	CE1	IMD	1	1	27.096	42.555	78.588	1.00 9.17
ATOM	4908	NE2	IMD	Ι	1	28.014	42.249	79.494	1.00 21.14
MOTA	4909	CB	ACE	C	1	13.753	12.531	68.686	1.00 39.29
ATOM	4910	CG	ACE	С	1	13.041	13.755	69.176	1.00 52.31
ATOM	4911	OD1	ACE	C	1	13.310	14.951	68.885	1.00 21.34
ATOM	4912	OD2	ACE	С	1	12.075	13.324	69.958	1.00 27.10
ATOM	4913	0	HOH	W	1	23.792	34.258	75.188	1.00 13.41
ATOM	4914	0	HOH	W	2	41.402	41.645	77.736	1.00 18.41
ATOM	4915	0	нон	W	3	21.452	48.008	79.289	1.00 14.29
MOTA	4916	0	нон		4	7.395	22.508	68.980	1.00 15.42
ATOM	4917	o	нон		5	8.875	45.610	71.521	1.00 15.01
ATOM	4918	Ö	нон		6	18.318	15.775	81.560	1.00 42.99
ATOM	4919	Ö	нон		7	30.607	45.406	73.230	1.00 16.49
ATOM	4920	Ö	нон		8	2.151	35.326	56.132	1.00 20.69
		Ö	нон		9	26.371	45.237	72.729	1.00 32.21
ATOM	4921								1.00 19.66
ATOM	4922	0	HOH		10	10.117	47.411	58.465	
MOTA	4923	0	HOH		11	24.576	45.901	81.764	1.00 15.98
ATOM	4924	0	НОН		12	21.400	39.522	70.350	1.00 17.59
MOTA	4925	0	HOH		13	32.755	39.688	76.763	1.00 14.73
MOTA	4926	0	HOH		14	15.723	43.292	73.593	1.00 28.15
ATOM	4927	0	HOH		15	33.012	53.990	68.029	1.00 20.61
MOTA	4928	0	HOH		16	21.672	48.368	86.318	1.00 18.35
MOTA	4929	0	HOH		17	11.843	66.293	86.775	1.00 20.28
MOTA	4930	0	HOH	W	18	-7.370	39.258	72.858	1.00100.00
MOTA	4931	0	HOH	W	19	10.951	58.853	90.712	1.00 31.18

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MOTA	4932	0	HOH W	20	7.991	67.991	69.688	1.00 51.29
MOTA	4933	0	HOH W	21	27.534	25.933	83.686	1.00 30.42
ATOM	4934	0	HOH W	22	14.754	47.886	81.192	1.00 91.59
ATOM	4935		HOH W	23	35.638			
		0				66.681	74.616	1.00 18.43
ATOM	4936	0	HOH W	24	14.917	46.651	71.292	1.00 29.09
MOTA	4937	0	HOH W	25	24.339	72.545	82.858	1.00 27.38
ATOM	4938	0	HOH W	26	3.954	59.653	64.218	1.00 29.75
ATOM	4939	0	HOH W	27	0.174	30.326	72.099	1.00 20.53
ATOM	4940	ō	HOH W	28	17.250	55.520	87.251	1.00 15.14
ATOM	4941	0	HOH W	29	2.640	38.007	61.525	1.00 15.01
MOTA	4942	0	HOH W	30	10.861	36.115	89.266	1.00 26.76
MOTA	4943	0	HOH W	31	30.988	44.243	70.800	1.00 37.98
MOTA	4944	0	HOH W	32	9.095	44.675	75.314	1.00 24.97
ATOM	4945	0	HOH W	33	29.917	47.569	70.312	1.00 33.43
ATOM	4946	o	HOH W	34	23.537	45.186	73.070	1.00 21.89
MOTA	4947	0	HOH W	35	13.919	30.086	87.520	1.00 27.60
MOTA	4948	0	HOH W	36	24.004	28.230	84.950	1.00 54.91
MOTA	4949	0	HOH W	37	44.740	56.907	93.797	1.00 39.70
MOTA	4950	0	HOH W	38	36.453	36.919	75.700	1.00 12.06
ATOM	4951	0	HOH W	39	27.587	65.302	75.920	1.00 21.02
		ŏ			23.077	39.811	87.155	1.00 38.48
ATOM	4952		HOH W	40				
MOTA	4953	0	HOH W	41	3.661	37.055	59.039	1.00 17.86
MOTA	4954	0	HOH W	42	21.794	20.673	79.219	1.00 20.60
ATOM	4955	0	HOH W	43	6.324	36.055	87.167	1.00 30.35
ATOM	4956	0	HOH W	44	24.649	34.194	44.975	1.00 52.51
ATOM	4957	0	HOH W	45	20.611	44.717	78.685	1.00 27.41
MOTA	4958	Ö	HOH W	46	19.969	50.884	89.461	1.00 29.62
MOTA	4959	0	HOH W	47	30.940	66.808	78.811	1.00 15.76
ATOM	4960	0	HOH W	48	26.539	55.260	66.886	1.00 19.97
ATOM	4961	0	HOH W	49	7.314	45.436	77.867	1.00 35.07
ATOM	4962	0	HOH W	50	10.579	54.800	67.603	1.00 15.62
ATOM	4963	0	HOH W	51	28.138	31.371	66.611	1.00 15.08
ATOM	4964	0	HOH W	52	26.292	33.348	75.129	1.00 15.49
MOTA	4965	o	HOH W	53	15.204	48.508	69.331	1.00 16.03
ATOM	4966	0	HOH W	54	9.451	57.282	68.158	1.00 20.39
MOTA	4967	0	HOH W	55	34.923	67.738	77.001	1.00 15.06
ATOM	4968	0	HOH W	56	10.193	53.763	78.443	1.00 19.23
ATOM	4969	0	HOH W	57	35.246	32.562	64.227	1.00 27.89
ATOM	4970	0	HOH W	58	7.230	48.517	65.509	1.00 17.57
ATOM	4971	0	HOH W	59	15.707	29.269	62.146	1.00 16.76
ATOM	4972	ō	нон w	60	22.703	46.209	83.610	1.00 14.72
		o	HOH W			31.742	67.048	1.00 67.53
MOTA	4973			61	-5.573			
MOTA	4974	0	HOH W	62	23.958	46.448	79.118	1.00 14.95
MOTA	4975	0	HOH W	63	-4.387		59.224	1.00 29.13
ATOM	4976	0	HOH W	64	1.494	43.916	68.255	1.00 21.32
ATOM	4977	0	HOH W	65	15.236	37.185	89.202	1.00 24.71
ATOM	4978	0	HOH W	66	8.901	44.256	58.842	1.00 22.41
ATOM	4979	ō	HOH W	67	8.741	44.059	69.410	1.00 19.23
								1.00 17.26
MOTA	4980	0	HOH W	68	10.536	31.361	71.130	
MOTA	4981	0	HOH W	69	14.270	66.977	85.494	1.00 24.71
MOTA	4982	0	HOH W	70	19.324	33.013	51.120	1.00 31.37
MOTA	4983	0	HOH W	71	22.888	42.589	71.900	1.00 32.53
MOTA	4984	0	HOH W	72	18.199	19.792	50.850	1.00 95.99
ATOM	4985	0	HOH W	73	-2.766	36.708	53.654	1.00 25.61
MOTA	4986	ō	HOH W	74	40.154	44.352	89.098	1.00 18.04
								1.00 42.09
ATOM	4987	0	HOH W	75	43.798	45.414	76.216	
ATOM	4988	0	HOH W	76	2.095	33.636	67.241	1.00 16.77
MOTA	4989	0	HOH W	77	17.697	47.834	68.674	1.00 15.55
ATOM	4990	0	HOH W	78	0.487	49.526	68.994	1.00 40.71
ATOM	4991	0	HOH W	79	24.958	57.027	93.315	1.00 15.83
ATOM	4992	ō	HOH W	80	16.157	27.572	83.036	1.00 20.90
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3.0034	4003	_	HOH W	01	E 222	40 220	63 415	1.00 17.36
MOTA	4993	0	HOH W	81	5.222	49.330	63.415	
MOTA	4994	0	HOH W	82	16.211	37.941	52.836	1.00 19.88
ATOM	4995	0	HOH W	83	32.789	43.179	86.654	1.00 20.34
ATOM	4996	0	HOH W	84	9.298	48.075	81.153	1.00 54.83
ATOM	4997	ō	HOH W	85	29.454	36.152	82.527	1.00 29.31
					41.926		91.024	1.00 26.91
MOTA	4998	0	HOH W	86		50.859		
MOTA	4999	0	HOH W	87	42.353	47.486	84.905	1.00 21.77
MOTA	5000	0	HOH W	88	7.099	45.738	66.261	1.00 16.80
ATOM	5001	0	HOH W	89	-7.189	40.950	62.864	1.00 18.87
ATOM	5002	ō	HOH W	90	-0.532	35.957	55.006	1.00 30.96
						58.239		
MOTA	5003	0	HOH W	91	2.498		62.223	1.00 33.64
MOTA	5004	0	HOH W	92	8.030	54.347	85.172	1.00 36.67
MOTA	5005	0	HOH W	93	-9.086	47.257	64.010	1.00 25.14
ATOM	5006	0	HOH W	94	7.634	23.157	71.565	1.00 26.48
ATOM	5007	0	нон w	95	36.802	57.687	75.942	1.00 33.51
		Ö	HOH W	96	31.266	28.847	81.561	1.00 33.78
ATOM	5008							
MOTA	5009	0	HOH W	97	42.718	53.265	90.455	1.00 18.15
MOTA	5010	0	HOH W	98	25.175	49.362	94.064	1.00 38.55
ATOM	5011	0	HOH W	99	-1.458	36.897	71.377	1.00 21.47
MOTA	5012	0	HOH W	100	36.955	22.462	67.101	1.00 62.30
ATOM	5013	ō	нон w		17.777	47.785	75.841	1.00 20.17
MOTA	5014	0		102	17.194	41.841	54.112	1.00 16.39
MOTA	5015	0	HOH W	103	-1.972	55.370	57.254	1.00 25.11
MOTA	5016	0	HOH W	104	27.602	40.677	72.586	1.00 21.30
MOTA	5017	0	нон и	105	37.435	51.467	61.104	1.00 65.38
ATOM	5018	ō	HOH W		1.256	32.447	69.628	1.00 23.44
						16.192	63.327	1.00 48.00
MOTA	5019	0	HOH W		9.241			
MOTA	5020	0	HOH W	108	0.854	36.054	64.035	1.00 18.60
ATOM	5021	0	HOH W	109	18.727	44.131	84.651	1.00 24.89
MOTA	5022	0	HOH W	110	26.098	18.961	78.803	1.00 24.48
ATOM	5023	0	нон м	111	19.158	42.699	78.273	1.00 28.07
ATOM	5024	ō	HOH W		38.525	39.961	90.164	1.00 49.63
						45.487	82.264	1.00 21.64
MOTA	5025	0	HOH W		18.603			
MOTA	5026	0	HOH W	114	-9.935	47.106	60.568	1.00 27.24
MOTA	5027	0	HOH W	115	12.837	36.710	59.433	1.00 15.13
ATOM	5028	0	HOH W	116	33.438	65.032	85.997	1.00 32.21
MOTA	5029	0	HOH W	117	38.122	36.535	73.494	1.00 12.50
MOTA	5030	0	HOH W		39.258	66.537	78.047	1.00 18.65
					6.554	34.671	88.987	1.00 15.86
MOTA	5031	0	HOH W					
MOTA	5032	0		120	13.095	46.874	73.346	1.00 30.35
ATOM	5033	0	HOH W	121	32.660	36.335	82.732	1.00 35.47
MOTA	5034	0	HOH W	122	9.605	28.610	88.505	1.00 19.15
ATOM	5035	0	HOH W	123	27.330	46.500	69.982	1.00 28.22
ATOM	5036	0	HOH W		21.495	44.397	85.333	1.00 27.70
	5037	ō			25.964	67.884	90.313	1.00 24.59
ATOM			HOH W			61.279	78.612	1.00 24.08
MOTA	5038	0	HOH W		39.654			
MOTA	5039	0	HOH W		28.830	50.839	62.528	1.00 22.84
ATOM	5040	0	HOH W	128	-2.192	25.904	60.928	1.00 48.99
MOTA	5041	0	HOH W	129	12.941	37.733	62.998	1.00 17.09
ATOM	5042	O	нон w	130	17.656	39.494	55.302	1.00 23.77
ATOM	5043	ō	HOH W		5.616	31.767	78.251	1.00 22.11
						59.317	68.286	1.00 24.37
MOTA	5044	0	HOH W		11.134			
ATOM	5045	0	HOH W		7.669	46.689	57.186	1.00 19.15
MOTA	5046	0	HOH W		24.475	34.718	86.839	1.00 32.19
MOTA	5047	0	HOH W	135	23.517	44.933	68.463	1.00 20.25
MOTA	5048	0	HOH W	136	26.942	39.752	68.390	1.00 15.96
ATOM	5049	ō	HOH W		8.029	20.133	84.468	1.00 16.28
		ŏ	HOH W		-0.771	45.529	78.260	1.00 68.55
MOTA	5050							
MOTA	5051	0	HOH W		44.023	49.889	77.980	1.00 30.04
ATOM	5052	0	HOH W	140	26.786	62.061	81.604	1.00 16.85
MOTA	5053	0	HOH W	141	13.879	47.676	76.209	1.00 46.91

ATOM	5054	0	HOH W	142	25.840	58.036	65.771	1.00 54.37
ATOM	5055	0	HOH W		10.922	53.966	85.792	1.00 18.98
ATOM	5056	ŏ	HOH W		-12.182	45.374	45.449	1.00 33.96
ATOM	5057	Ö	HOH W		31.206			1.00 15.60
						39.579	79.369	
MOTA	5058	0	HOH W		15.440	42.222	77.590	1.00 25.43
MOTA	5059	0		147	0.824	56.052	62.386	1.00 26.41
MOTA	5060	0	HOH W	148	44.978	53.578	86.262	1.00 22.60
MOTA	5061	0	HOH W	149	17.898	31.967	86.834	1.00 19.51
MOTA	5062	0	HOH W	150	15.892	63.944	61.374	1.00 54.27
ATOM	5063	0	HOH W	151	29.311	44.330	75.316	1.00 39.02
MOTA	5064	0	HOH W	152	11.678	62.566	52.561	1.00 27.61
ATOM	5065	o	HOH W		26.748	53.479	95.785	1.00 45.53
ATOM	5066	ō		154	35.164	39.157	88.454	1.00 33.28
ATOM			HOH W				61.539	1.00 35.20
	5067	0			13.599	30.411		
ATOM	5068	0		156	2.955	41.496	60.167	1.00 26.41
ATOM	5069	0		157	21.013	47.058	81.902	1.00 24.07
MOTA	5070	0	HOH W	158	7.082	15.804	68.963	1.00 13.64
ATOM	5071	0	HOH W	159	43.659	51.565	97.228	1.00 13.91
ATOM	5072	0	HOH W	160	25.728	46.521	67.857	1.00 15.18
ATOM	5073	0	HOH W	161	16.336	27.429	80.519	1.00 13.58
MOTA	5074	0		162	13.506	27.963	78.488	1.00 11.63
ATOM	5075	ō	HOH W	163	-1.826	28.836	60.633	1.00 18.21
ATOM	5076	o	HOH W	164	2.041	28.523	68.718	1.00 19.80
ATOM					39.832			
	5077	0		165		50.082	92.567	1.00 15.76
ATOM	5078	0	HOH W	166	20.417	35.797	44.686	1.00 23.98
MOTA	5079	0	HOH W	167	36.272	60.259	74.993	1.00 26.08
ATOM	5080	0		168	5.426	61,205	63.338	1.00 23.06
ATOM	5081	0	HOH W	169	17.667	67.608	77.116	1.00 28.66
MOTA	5082	0	HOH W	170	5.631	18.160	69.508	1.00 19.48
MOTA	5083	0	HOH W	171	22.328	62.979	93.415	1.00 25.81
MOTA	5084	0	HOH W	172	40.390	48.175	94.855	1.00 47.37
MOTA	5085	0	HOH W	173	17.444	40.095	51.789	1.00 18.19
ATOM	5086	0	HOH W	174	29.587	24.011	76.681	1.00 24.09
ATOM	5087	0		175	6.778	26.010	80.637	1.00 26.64
ATOM	5088	ō	HOH W	176	43.821	42.250	81.895	1.00 24.88
ATOM	5089	0.		177	28.198	18.300	60.474	1.00 24.14
	5090	ŏ		178	22.788	46.771	90.209	1.00 24.26
ATOM								
ATOM	5091	0	HOH W		29.931	24.564	79.534	1.00 31.74
ATOM	5092	0		180	10.739	18.587	70.209	1.00 34.82
MOTA	5093	0	HOH W		3.737	42.980	66.727	1.00 18.45
ATOM	5094	0		182	10.657	69.135	86.850	1.00 30.21
ATOM	5095	0	HOH W	183	23.612	39.959	68.861	1.00 20.99
MOTA	5096	0	HOH W	184	30.240	50.378	93.511	1.00 31.76
ATOM	5097	0	HOH. M	185	24.407	42.363	69.680	1.00 23.63
ATOM	5098	0	HOH W	186	3.121	26.698	57.992	1.00 26.26
ATOM	5099	0	HOH W		6.662	51.993	60.872	1.00 21.24
ATOM	5100	0	HOH W		10.549	31.727	52.631	1.00 21.12
ATOM	5101	ō	HOH W		7.213	14.560	66.229	1.00 19.68
ATOM	5102	ŏ	HOH W		10.944	37.995	74.849	1.00 26.21
ATOM	5102	ő	HOH W		29.009	38.268	80.361	1.00 20.21
ATOM	5104	0	HOH W		8.720	37.803	87.790	1.00 25.70
ATOM	5105	0	HOH W		30.731	47.721	57.132	1.00 25.12
MOTA	5106	0	HOH W		21.085	45.693	69.052	1.00 27.11
MOTA	5107	0	HOH W		37.609	50.318	68.349	1.00 33.12
MOTA	5108	0	HOH W		-4.270	35.004	72.084	1.00 23.92
MOTA	5109	0	HOH W	197	38.619	67.647	73.848	1.00 28.81
ATOM	5110	0	HOH W	198	0.963	27.263	54.964	1.00 25.61
ATOM	5111	0	HOH W	199	32.881	53.350	97.969	1.00 72.92
ATOM	5112	0	HOH W			54.411	65.120	1.00 21.12
ATOM	5113	ō	HOH W		19.780	53.463	90.814	1.00 25.04
MOTA	5114	Ö	HOH W		-7.941	56.718	56.011	1.00 40.98
ALON	~===	-		202	1.727	20.720	JU. 011	2.00 40.00

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MOTA	5115	0	HOH W		8.373	35.496	71.320	1.00 34.46
ATOM	5116	0	HOH W	204	30.102	60.104	96.117	1.00 23.15
MOTA	5117	0	HOH W	205	28.927	39.455	66.453	1.00 21.12
MOTA	5118	0	HOH W	206	39.689	41.335	88.297	1.00 27.24
							52.438	1.00 33.19
ATOM	5119	0	HOH W		33.916	37.626		
ATOM	5120	0	HOH W	208	1.622	50.963	82.588	1.00 50.35
ATOM	5121	0	HOH W	209	16.333	60.146	56.900	1.00 29.60
MOTA	5122	0	HOH W	210	39.242	45.128	91.725	1.00 22.90
	5123	ō	HOH W		14.399	30.418	45.430	1.00 34.78
MOTA								
MOTA	5124	0	HOH W		29.888	42.111	88.891	1.00 34.76
MOTA	5125	0	HOH W	213	18.346	26.212	50.297	1.00 44.21
MOTA	5126	0	HOH W	214	22.864	63.026	74.711	1.00 29.30
ATOM	5127	0	HOH W	215	20.113	37.220	85.926	1.00 24.06
		o	HOH W		23.298	70.540	87.208	1.00 35.89
ATOM	5128							
ATOM	5129	0	HOH W		26.970	41.872	69.933	1.00 28.60
ATOM	5130	0	HOH W	218	-4.296	44.927	43.216	1.00 33.90
ATOM	5131	0	HOH W	219	12.321	60.082	62.828	1.00 28.33
ATOM	5132	0	HOH W	220	13.873	37.878	45.419	1.00 43.55
ATOM	5133	o	HOH W		30.748	40.180	83.791	1.00 37.04
								1.00 23.80
ATOM	5134	0	HOH W		15.784	58.732	93.087	
ATOM	5135	0	HOH W	223	35.311	18.767	63.462	1.00 49.24
ATOM	5136	0	HOH W	224	-0.325	33.536	77.400	1.00 28.59
ATOM	5137	0	HOH W	225	9.312	60.280	65.861	1.00 37.85
ATOM	5138	0	HOH W		20.424	20.146	83.661	1.00 32.68
			HOH W		10.879	65.256	88.761	1.00 28.17
ATOM	5139	0						
MOTA	5140	0	HOH W		6.481	11.890	66.154	1.00 13.58
MOTA	5141	0	HOH W	229	11.493	12.304	65.667	1.00 31.38
ATOM	5142	Q	HOH W	230	23.893	48.760	67.764	1.00 19.58
MOTA	5143	0	HOH W	231	11.826	33.465	74.498	1.00 16.87
MOTA	5144	ō	HOH W		20.228	48.799	84.083	1.00 14.10
		ŏ	HOH W		8.333	25.989	83.238	1.00 20.03
ATOM	5145							
ATOM	5146	0	HOH W		24.244	65.422	90.512	1.00 18.61
ATOM	5147	0	HOH W		29.682	43.395	86.674	1.00 29.99
ATOM	5148	0	HOH W	236	32.122	38.935	81.421	1.00 21.98
MOTA	5149	0	HOH W	237	38.098	44.260	70.626	1.00 23.18
ATOM	5150	0	HOH W	238	17.172	68.773	81.829	1.00 33.19
ATOM	5151	ō	HOH W		22.056	41.676	85.707	1.00 27.98
					10.609		76.035	1.00 26.77
ATOM	5152	0	HOH W			35.835		
ATOM	5153	0	HOH W		5.895	48.362	80.563	1.00 35.27
ATOM	5154	0	HOH M	242	4.210	38.365	90.354	1.00 62.63
MOTA	5155	0	HOH W	243	27.505	26.048	57.570	1.00 34.59
ATOM	5156	0	HOH W	244	40.199	29.895	75.610	1.00 30.81
ATOM	5157	0	нон w	245	41.069	35.070	67.073	1.00 25.75
ATOM	5158	ō	HOH W		18.209	43.386	70.174	1.00 24.27
								1.00 35.20
ATOM	5159	0	HOH W		22.994	40.780	73.297	
ATOM	5160	0	HOH W		11.980	17.646	61.687	1.00 24.63
ATOM	5161	0	и нон	249	17.092	44.230	71.974	1.00 27.55
MOTA	5162	0	HOH W	250	29.907	45.909	50.610	1.00 33.85
MOTA	5163	0	HOH W	251	25.337	41.587	74.020	1.00 31.92
	5164	ō	HOH W		34.320	29.393	64.417	1.00 34.88
ATOM								
MOTA	5165	0	HOH W		16.366	57.688	55.311	1.00 30.35
MOTA	5166	0	HOH W		25.295	70.347	83.432	1.00 44.62
ATOM	5167	0	HOH W	255	28.780	44.083	69.312	1.00 38.06
ATOM	5168	0	HOH W	256	43.987	44.841	81.855	1.00 26.92
ATOM	5169	0	HOH W		10.694	22.780	82.399	1.00 40.18
MOTA	5170	o	HOH W		3.209	26.059	69.842	1.00 50.02
					25.123		90.995	1.00 30.02
MOTA	5171	0	HOH W			69.880		
MOTA	5172	0	HOH W		10.460	60.937	72.334	1.00 28.48
MOTA	5173	0	HOH W	261	35.272	43.014	54.933	1.00 35.32
MOTA	5174	0	HOH W	262	31.555	49.428	69.261	1.00 30.03
ATOM	5175	0	HOH W		18.455	45.339	74.865	1.00 22.60
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MOTA	5176	0	HOH W		0.397	52.925	76.187	1.00 26.73
MOTA	5177	0	HOH W	265	24.642	68.564	81.573	1.00 27.40
MOTA	5178	0	HOH W	266	25.734	20.393	55.492	1.00 32.87
MOTA	5179	0	HOH W	267	11.923	58.720	70.763	1.00 21.77
ATOM	5180	0	нон w	268	30.308	43.013	67.201	1.00 35.32
ATOM	5181	ō	HOH W		39.640	38.126	67.437	1.00 28.94
ATOM		Ö	HOH W		10.397			
	5182					50.110	41.557	1.00 28.07
MOTA	5183	0	HOH W		33.290	46.466	61.539	1.00 27.30
MOTA	5184	0	HOH W		0.016	42.090	76.502	1.00 32.33
MOTA	5185	0	HOH W	273	26.563	45.481	40.291	1.00 47.85
ATOM	5186	0	HOH W	274	30.451	15.205	70.110	1.00 33.04
MOTA	5187	0	HOH W	275	0.678	54.618	69.973	1.00 30.37
ATOM	5188	0	HOH W	276	31.009	22.826	58.292	1.00 38.03
ATOM	5189	0	HOH W	277	11.598	18.077	78.103	1.00 32.86
ATOM	5190	0	HOH W		42.789	49.257	82.276	1.00 38.27
MOTA	5191	ō	HOH W		22.610	37.483	44.945	1.00 36.88
ATOM	5192	0	HOH W		19.095	19.104	54.480	1.00 29.52
ATOM	5193	0	HOH W		-17.217	39.695	36.067	1.00 33.38
ATOM	5194	0	HOH W		6.068	42.637	67.543	1.00 33.87
MOTA	5195	0	HOH W		20.639	46.522	87.847	1.00 36.70
ATOM	5196	0	HOH W		-8.870	56.242	58.240	1.00 50.62
ATOM	5197	0	HOH W	285	16.582	61.670	59.151	1.00 38.20
MOTA	5198	0	HOH W	286	42.501	43.301	75.886	1.00 27.81
MOTA	5199	0	HOH W	287	25.604	33.439	84.786	1.00 21.08
ATOM	5200	0	HOH W	288	13.520	67.352	52.561	1.00 39.75
MOTA	5201	0	HOH W	289	9.627	28.198	45.908	1.00 37.35
ATOM	5202	ō	HOH W		18.134	36.512	88.493	1.00 43.01
ATOM	5203	ō	HOH W	-	22.300	20.482	81.874	1.00 37.81
ATOM	5204	ŏ	HOH W		44.203	41.289	79.602	1.00 27.00
ATOM	5205	0	HOH W		44.462	52.335	93.395	1.00 32.88
ATOM	5206	0	HOH W		-2.968	37.813	43.815	1.00 39.42
ATOM	5207	0	HOH W		14.615	50.638	83.483	1.00 40.84
MOTA	5208	0	HOH W		17.655	48.236	85.049	1.00 38.41
ATOM	5209	0	HOH W		25.105	58.534	70.338	1.00 45.37
ATOM	5210	0	HOH W	298	6.153	22.174	58.465	1.00 51.17
ATOM	5211	0	HOH W	299	14.099	45.045	75.129	1.00 38.12
ATOM	5212	0	HOH W	300	3.614	33.798	78.265	1.00 33.77
ATOM	5213	0	HOH W	301	10.974	62.101	70.086	1.00 31.30
ATOM	5214	0	HOH W	302	7.585	38.532	71.479	1.00 35.66
MOTA	5215	0	HOH W	303	20.998	44.178	74.359	1.00 37.38
ATOM	5216	0	HOH W	304	11.918	38.385	43.252	1.00 35.61
ATOM	5217	0	нон w		34.337	29.948	80.309	1.00 36.78
ATOM	5218	Ō	HOH W		39.120	63.630	75.316	1.00 43.48
ATOM	5219	Ō	HOH W		36.491	64.702	80.717.	
ATOM	5220	ŏ	HOH W		-11.598	58.968	55.040	1.00 54.59
ATOM	5221		HOH W		18.873	53.508	93.447	1.00 34.33
		0						1.00 29.42
MOTA	5222	0	HOH W		7.673	37.412	69.273	
ATOM	5223	0	HOH W		38.494	29.355	71.433	1.00 35.92
MOTA	5224	0	HOH W		2.378	64.614	72.106	1.00 23.68
MOTA	5225	Ο .	HOH W		34.055	22.747	70.419	1.00 47.42
MOTA	5226	0	HOH W	314	6.517	15.338	63.891	1.00 39.21
MOTA	5227	0	HOH W	315	33.135	58.667	95.357	1.00 38.27
MOTA	5228	0	HOH W	316	7.877	41.088	68.810	1.00 30.88
ATOM	5229	0	HOH W		4.500	63.686	62.465	1.00 40.54
ATOM	5230	0	HOH W		32.594	44.212	51.619	1.00 28.18
ATOM	5231	ō	HOH W		19.892	28.363	50.295	1.00 37.48
ATOM	5232	ō	HOH W		38.121	42.209	58.482	1.00 35.42
ATOM	5233	ŏ	HOH W		18.953	60.209	59.879	1.00 32.37
ATOM	5234	o	HOH W		-1.038	45.854	73.695	1.00 32.37
ATOM	5235	Ö	HOH W		-6.723	31.695	78.229	1.00 48.52
MOTA	5236	0	HOH M	344	20.123	41.413	71.190	1.00 40.23

ATOM	5237	0	HOH W	325	5.380	25.588	55.751	1.00 26.30
ATOM	5238	0	HOH W	326	-8.946	53.154	58.636	1.00 33.33
ATOM	5239	0	HOH W	327	5.224	20.615	65.617	1.00 38.04
MOTA	5240	0	HOH W	328	-0.951	44.688	66.660	1.00 48.71
ATOM	5241	0	нон w		9.548	17.972	61.116	1.00 38.57
ATOM	5242	0	HOH W		16.170	45.478	46.564	1.00 33.55
ATOM	5243	ō	HOH W		28.152	31.228	86.919	1.00 66.11
ATOM	5244	ŏ	HOH W		-4.227	32.608	61.396	1.00 29.03
ATOM	5245	Ö	HOH W		23.532	69.913	79.399	1.00 40.45
ATOM	5246	ō	HOH W		16.943	25.394	84.026	1.00 35.64
MOTA	5247	Ö	HOH W		-6.097	33.164	72.143	1.00 47.23
MOTA	5248	ō	HOH W		26.639	58.545	95.902	1.00 47.23
ATOM	5249	ŏ	HOH W		18.090	14.281	77.183	1.00 34.77
MOTA	5250	Ö	HOH W		16.783	69.158	79.498	1.00 34.77
							83.945	
ATOM	5251	0	HOH W		44.586	50.422		1.00 37.92
ATOM	5252	0	HOH W		11.828	51.361	43.560	1.00 42.10
ATOM	5253	0	HOH W		22.773	36.745	86.817	1.00 38.07
MOTA	5254	0	HOH W		26.608	43.969	74.943	1.00 32.64
MOTA	5255	0	HOH W		14.797	17.437	79.901	1.00 37.80
ATOM	5256	0	HOH W		32.755	40.414	86.886	1.00 53.20
MOTA	5257	0	нон м		23.938	65.851	93.231	1.00 38.25
MOTA	5258	0	HOH W		34.689	68.947	70.635	1.00 32.36
MOTA	5259	0	HOH W		32.902	14.779	66.467	1.00 55.05
MOTA	5260	0	HOH W		-0.197	59.892	61.918	1.00 41.09
ATOM	5261	0	HOH W		35.933	50.743	66.825	1.00 29.14
MOTA	5262	0	HOH W		21.451	70.196	84.069	1.00 37.63
MOTA	5263	0	HOH W		10.392	34.055	71.909	1.00 37.36
MOTA	5264	0	HOH W		16.118	48.288	46.594	1.00 33.56
MOTA	5265	0	HOH W		2.277	58.481	67.819	1.00 45.09
MOTA	5266	0	HOH W		-21.140	42.970	52.987	1.00 38.49
ATOM	5267	0	HOH W		0.364	56.797	65.209	1.00 34.76
MOTA	5268	0	HOH W		9.763	37.511	72.464	1.00 36.84
MOTA	5269	0	HOH W		-3.293	29.651	64.159	1.00 48.44
ATOM	5270	0	HOH W		18.653	59.497	55.820	1.00 41.32
MOTA	5271	0	HOH W		18.360	56.858	89.365	1.00 16.20
MOTA	5272	0	HOH W		19.264	58.334	58.324	1.00 24.32
MOTA	5273	0	HOH W		19.786	68.920	85.535	1.00 36.46
MOTA	5274	0	HOH W		0.891	46.454	70.028	1.00 49.40
ATOM	5275	0	HOH W		13.401	15.156	61.247	1.00 32.90
ATOM	5276	0	HOH W		29.937	41.912	73.484	1.00 34.92
MOTA	52 <b>7</b> 7	0	HOH W		28.117	39.053	82.612	1.00 29.94
MOTA	5278	0	HOH W		17.060	44.064	76.687	1.00 31.64
MOTA	5279	0	HOH W	367	7.781	32.331	42.244	1.00 54.33
ATOM	5280	0	HOH W		13.484	60.143	67.092	1.00 36.32
MOTA	5281	0	HOH W		4.972	65.695	69.472	1.00 30.93
MOTA	5282	0	HOH W		20.859	55.364	94.926	1.00 35.05
MOTA	5283	0	HOH W		29.891	64.316	94.062	1.00 32.43
ATOM	5284	0	HOH W	372	31.636	50.857	46.407	1.00 75.60
MOTA	5285	0	HOH W		-9.778	35.027	39.632	1.00 56.74
MOTA	5286	0	HOH W		14.152	12.701	64.957	1.00 23.80
MOTA	5287	0	HOH W		35.419	45.143	64.442	1.00 36.74
ATOM	5288	0	HOH W		34.839	57.375	97.888	1.00 34.34
MOTA	5289	0	HOH W		35.027	44.946	53.379	1.00 45.25
MOTA	5290	0	HOH W		10.904	44.942	78.238	1.00 46.33
MOTA	5291	0	HOH W		2.265	29.749	79.673	1.00 55.34
MOTA	5292	0	HOH W		38.376	37.663	83.485	1.00 48.83
MOTA	5293	0	HOH W		7.069	18.511	64.588	1.00 42.75
ATOM	5294	0	HOH W		10.013	63.184	65.119	1.00 51.27
MOTA	5295	0	HOH W		26.880	67.265	80.460	1.00 29.17
MOTA	5296	0	HOH W		5.435	44.858	39.529	1.00 44.09
MOTA	5297	0	HOH W	385	12.020	76.116	49.503	1.00 57.08

ATOM	5298	0	HOH W	386	4.495	69.223	72.134	1.00	39.49
ATOM	5299	0	HOH W	387	34.373	34.834	52.407	1.00	45.73
ATOM	5300	0	HOH W		-0.366	52.210	68.045	1.00	56.86
ATOM	5301	0	HOH W		15.108	39.899	89.165		30.62
ATOM	5302	ō	HOH W		20.977	60.725	61.985		42.08
ATOM	5303	ŏ	HOH W		29.038	14.547	63.725		33.69
ATOM	5304	0	HOH W		34.064	66.637	81.988		37.83
MOTA	5305	0	HOH W		8.669	71.915	54.348		40.01
MOTA	5306	0	HOH W		4.823	29.577	79.259		42.09
MOTA	5307	0	HOH W		22.745	32.929	42.078		50.18
MOTA	5308	0	HOH W		0.658	29.749	51.236		30.86
MOTA	5309	0	HOH W	397	3.793	58.214	86.346		62.42
MOTA	5310	0	HOH W	398	12.206	40.564	89.850	1.00	39.66
MOTA	5311	0	HOH W	399	21.573	25.561	53.053	1.00	34.62
ATOM	5312	0	HOH W	400	30.197	56.551	58.739	1.00	40.16
MOTA	5313	0	HOH W	401	20.406	59.350	64.941	1.00	33.97
MOTA	5314	0	HOH W	402	16.956	52.960	87.724	1.00	54.35
MOTA	5315	0	HOH W	403	36.719	27.459	68.822	1.00	42.51
ATOM	5316	0	HOH W		7.458	27.206	77.481	1.00	46.67
ATOM	5317	0	HOH W		36.220	64.298	90.593		51.29
ATOM	5318	ō	HOH W		-17.985	43.406	48.900		41.71
ATOM	5319	o	HOH W		1.914	29.246	53.120		38.28
			HOH W		-4.267	29.328	73.970		34.50
ATOM	5320	0			14.000		42.218		42.56
MOTA	5321	0	HOH W			53.360			
ATOM	5322	0	HOH W		5.615	22.345	61.668		59.03
ATOM	5323	0	HOH W		-3.455	50.442	63.951		44.90
ATOM	5324	0	HOH W		29.002	38.811	44.563		43.27
ATOM	5325	0	HOH W		37.416	55.208	61.603		42.90
MOTA	5326	0	HOH W		14.459	14.960	73.514		42.33
MOTA	5327	0	HOH W		35.076	48.768	98.233		41.69
MOTA	5328	0	HOH W	416	6.452	56.342	86.263		34.79
MOTA	5329	0	HOH W	417	35.573	17.694	66.735	1.00	40.65
MOTA	5330	0	HOH W	418	28.756	59.314	74.937	1.00	35.85
MOTA	5331	0	HOH W	419	12.955	64.913	53.664	1.00	37.44
MOTA	5332	0	HOH W	420	23.309	24.474	50.751	1.00	45.73
ATOM	5333	0	HOH W	421	4.924	27.771	55.010	1.00	38.46
ATOM	5334	0	HOH W	422	19.668	63.675	93.111	1.00	41.69
MOTA	5335	0	HOH W	423	29.343	46.551	40.650	1.00	45.12
ATOM	5336	0	HOH W	424	28.230	48.770	60.385	1.00	40.19
ATOM	5337	0	HOH W	425	14.292	23.244	85.078	1.00	32.92
ATOM	5338	0	HOH W		7.179	66.298	48.617	1.00	47.43
ATOM	5339	ō	нон w		-11.542	35.315	64.224	1.00	45.74
ATOM	5340	ō	HOH W		-0.665	52.874	80.688	1.00	44.47
ATOM	5341	ō	HOH W			67.437	44.508		88.79
ATOM	5342	ō	HOH W		13.367	66.767	63.127		62.36
ATOM	5343	ŏ	HOH W		35.060	48.549	63.034		39.85
ATOM	5344	Ö	HOH W		11.721	60.705	42.372		56.11
			HOH W		14.261	27.588	85.980		51.35
MOTA	5345	0	HOH W				61.103		45.58
ATOM	5346	0			38.915	34.680			
ATOM	5347	0	HOH W		23.421	46.416	42.605		43.02 47.30
MOTA	5348	0	HOH W		19.154	28.435	86.238		
MOTA	5349	0	HOH W		26.658	43.571	47.275		34.55
MOTA	5350	0	HOH W		15.725	45.758	43.317		43.06
ATOM	5351	0	HOH W		36.546	66.825	82.882		30.83
ATOM	5352	0	HOH W		8.498	74.001	52.039		46.91
ATOM	5353	0	HOH W		27.161	71.692	92.146		39.00
ATOM	5354	0	HOH W		27.946	33.322	85.163		33.09
MOTA	5355	0	HOH W	443	15.310	10.169	65.089		63.51
ATOM	5356	0	HOH W	444	-13.474	41.923	71.321	1.00	44.29
ATOM	5357	0	HOH W	445	-6.593	61.419	56.587		36.57
ATOM	5358	0	HOH W	446	-4.107	19.122	50.753	1.00	80.39

ATOM 5359 O HOH W 447 21.809 59.754 43.571 1.00 64.03 ATOM 5361 O HOH W 448 32.503 55.926 51.478 1.00 51.13 ATOM 5362 O HOH W 459 17.433 44.251 80.196 1.00 52.95 ATOM 5363 O HOH W 451 8.921 18.143 71.756 1.00 45.59 ATOM 5363 O HOH W 451 8.921 18.143 71.756 1.00 45.59 ATOM 5365 O HOH W 452 46.415 37.408 72.673 1.00 74.61 ATOM 5366 O HOH W 452 46.612 53.65 82.940 1.00 45.59 ATOM 5367 O HOH W 453 28.187 69.890 80.215 1.00 33.51 ATOM 5368 O HOH W 456 10.557 47.292 72.599 1.00 14.04 ATOM 5368 O HOH W 455 28.187 69.890 80.215 1.00 33.51 ATOM 5370 O HOH W 458 33.355 31.445 62.420 1.00 32.53 ATOM 5371 O HOH W 458 33.355 31.445 62.420 1.00 32.53 ATOM 5373 O HOH W 459 26.658 39.474 43.256 1.00 32.53 ATOM 5373 O HOH W 450 30.185 25.893 82.542 1.00 45.40 ATOM 5373 O HOH W 461 20.780 39.620 40.793 1.00 60.63 ATOM 5375 O HOH W 463 1.328 41.371 78.681 1.00 42.25 ATOM 5375 O HOH W 463 1.328 41.371 78.681 1.00 56.39 ATOM 5376 O HOH W 463 1.328 41.371 78.681 1.00 56.39 ATOM 5377 O HOH W 465 34.317 54.895 70.139 1.00 60.63 ATOM 5378 O HOH W 466 33.554 62.996 70.488 1.00 37.48 ATOM 5379 O HOH W 466 33.554 62.996 70.488 1.00 37.48 ATOM 5379 O HOH W 466 33.554 62.996 70.488 1.00 37.48 ATOM 5379 O HOH W 466 37.787 55.035 100.999 1.00 57.37 ATOM 5378 O HOH W 466 37.787 55.035 100.999 1.00 57.37 ATOM 5380 O HOH W 466 37.787 55.035 100.999 1.00 57.37 ATOM 5381 O HOH W 468 37.787 55.035 100.999 1.00 57.37 ATOM 5382 O HOH W 467 13.278 63.141 46.031 1.00 57.39 ATOM 5383 O HOH W 468 37.787 55.035 100.999 1.00 57.37 ATOM 5380 O HOH W 468 37.787 55.035 100.999 1.00 57.37 ATOM 5380 O HOH W 468 37.787 55.035 100.999 1.00 57.37 ATOM 5380 O HOH W 468 37.787 55.035 100.999 1.00 57.37 ATOM 5380 O HOH W 470 25.470 45.716 58.248 1.00 36.66 ATOM 5389 O HOH W 471 25.811 39.642 69.739 1.00 44.12 ATOM 5380 O HOH W 472 25.811 39.642 69.739 1.00 40.753 ATOM 5380 O HOH W 478 49.53 1.00 57.379 1.00 50.86 ATOM 5389 O HOH W 478 49.53 1.00 57.379 1.00 50.86 ATOM 5399 O HOH W 479 19.555 38.646 1.00 35.468 1.00 36.66 ATOM 5399 O HOH W 479 19.555 38.646 1.00 36.66			_						
ATOM         5361         O         HOR W 449         17.433         44.251         80.196         1.00         52.95           ATOM         5363         O         HOR W 451         8.921         18.143         71.756         1.00         45.59           ATOM         5365         O         HOR W 452         46.612         53.365         82.940         1.00         41.61           ATOM         5366         O         HOR W 454         39.885         53.691         74.043         1.00         45.59           ATOM         5368         O         HOR W 456         10.557         47.222         72.599         1.00         43.55           ATOM         5368         O         HOR W 458         33.335         31.445         62.420         1.00         32.53           ATOM         5371         O         HOR W 459         26.658         39.474         43.256         1.00         32.50           ATOM         5373         O         HOR W 461         20.780         39.620         40.793         1.00         66.63           ATOM         5373         O         HOR W 465         13.228         41.791         78.661         1.00         42.53	MOTA	5359	0	HOH W	447	21.809	59.754	43.571	1.00 64.03
ATOM         5361         O         HOR W 449         17.433         44.251         80.196         1.00         52.95           ATOM         5363         O         HOR W 451         8.921         18.143         71.756         1.00         45.59           ATOM         5365         O         HOR W 452         46.612         53.365         82.940         1.00         41.61           ATOM         5366         O         HOR W 454         39.885         53.691         74.043         1.00         45.59           ATOM         5368         O         HOR W 456         10.557         47.222         72.599         1.00         43.55           ATOM         5368         O         HOR W 458         33.335         31.445         62.420         1.00         32.53           ATOM         5371         O         HOR W 459         26.658         39.474         43.256         1.00         32.50           ATOM         5373         O         HOR W 461         20.780         39.620         40.793         1.00         66.63           ATOM         5373         O         HOR W 465         13.228         41.791         78.661         1.00         42.53	MOTA	5360	0	HOH W	448	32.503	55.926	51.478	1.00 51.13
ATOM 5362 0 HOH W 450									
ATOM \$363 O HOH W 451									
ATOM	MOTA	5362	o	HOH W	450	-2.882	28.319	76.738	1.00 57.32
ATOM	ATOM	5363	0	HOH W	451	8.921	18.143	71.756	1.00 45.59
ATOM									
ATOM 5366 O HOH W 455									
ATOM	ATOM	5365	O	HOH W	453	46.612	53.365	82.940	1.00 41.92
ATOM 5368 0 HOH W 456	MOTA	5366	0	HOH W	454	39.885	53.691	74.043	1.00 45.59
ATOM 5368 0 HOH W 456	MOTA	5367	0	HOH W	455	28 187	69.890	80.215	1.00 33.51
ATOM 5369 0 HOH W 457 -0.687 61.537 70.644 1.00 40.63 ATOM 5370 0 HOH W 458 33.335 31.445 62.420 1.00 32.53 ATOM 5371 0 HOH W 459 26.655 39.474 43.256 1.00 32.53 ATOM 5372 0 HOH W 460 30.185 25.893 82.542 1.00 45.40 ATOM 5373 0 HOH W 461 20.780 39.620 40.793 1.00 60.63 ATOM 5374 0 HOH W 462 -13.804 40.073 67.421 1.00 42.25 ATOM 5375 0 HOH W 463 1.328 41.371 78.681 1.00 56.39 ATOM 5376 0 HOH W 464 33.554 26.796 70.488 1.00 37.43 ATOM 5377 0 HOH W 466 34.317 54.835 70.139 1.00 67.37 ATOM 5378 0 HOH W 466 1.781 17.79 66.821 1.00 57.37 ATOM 5378 0 HOH W 466 34.317 54.835 70.139 1.00 57.37 ATOM 5378 0 HOH W 466 37.787 55.035 100.999 1.00 57.79 ATOM 5380 0 HOH W 466 33.798 55.035 100.999 1.00 57.79 ATOM 5383 0 HOH W 469 13.794 19.603 83.707 1.00 47.25 ATOM 5383 0 HOH W 470 25.470 45.716 93.468 1.00 37.43 ATOM 5383 0 HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5385 0 HOH W 472 52.811 39.642 69.739 1.00 44.75 ATOM 5385 0 HOH W 473 23.329 56.116 94.868 1.00 36.66 ATOM 5387 0 HOH W 474 355.936 48.711 65.428 1.00 58.05 ATOM 5388 0 HOH W 477 25.2811 95.642 69.739 1.00 44.75 ATOM 5388 0 HOH W 477 25.2811 96.5507 82.635 1.00 41.75 ATOM 5388 0 HOH W 477 25.2811 96.5507 82.635 1.00 41.75 ATOM 5389 0 HOH W 478 35.936 48.711 65.428 1.00 58.05 ATOM 5389 0 HOH W 478 479 49.603 83.707 1.00 47.33 ATOM 5380 0 HOH W 478 479 49.603 83.707 1.00 47.33 ATOM 5380 0 HOH W 478 470 40.727 70.416 58.486 1.00 35.86 ATOM 5390 0 HOH W 478 470 40.727 70.416 58.486 1.00 35.86 ATOM 5390 0 HOH W 478 470 40.727 70.416 58.486 1.00 35.86 ATOM 5390 0 HOH W 478 470 40.727 70.416 58.486 1.00 35.86 ATOM 5390 0 HOH W 488 417.947 10.147 65.643 1.00 65.38 ATOM 5393 0 HOH W 488 417.947 10.147 65.643 1.00 65.38 ATOM 5390 0 HOH W 488 417.947 10.147 65.643 1.00 65.28 ATOM 5390 0 HOH W 488 417.947 10.147 65.643 1.00 67.28 ATOM 5390 0 HOH W 488 417.947 10.147 65.643 1.00 67.52 ATOM 5400 0 HOH W 488 417.947 10.147 65.643 1.00 67.52 ATOM 5400 0 HOH W 489 31.746 69.382 77.201 1.00 77.52 ATOM 5401 0 HOH W 490 3.374 63.00 77.95 1.00 49.06 ATOM 5403 0 HOH W 490 33.740									
ATOM 5370 O HOH W 458 33.335 31.445 62.420 1.00 32.53 ATOM 5371 O HOH W 459 26.656 39.474 43.256 1.00 32.53 ATOM 5372 O HOH W 460 30.185 25.893 82.542 1.00 45.40 ATOM 5373 O HOH W 461 20.780 39.620 40.793 1.00 60.63 ATOM 5373 O HOH W 462 -13.804 40.073 67.421 1.00 42.55 ATOM 5375 O HOH W 463 1.328 41.371 78.681 1.00 55.39 ATOM 5375 O HOH W 463 1.328 41.371 78.681 1.00 55.39 ATOM 5375 O HOH W 465 34.317 54.835 70.189 1.00 57.37 ATOM 5376 O HOH W 466 31.554 26.796 70.488 1.00 37.48 ATOM 5379 O HOH W 466 1.781 11.779 66.821 1.00 47.25 ATOM 5379 O HOH W 466 31.781 11.779 66.821 1.00 57.37 ATOM 5380 O HOH W 468 37.787 55.035 100.999 1.00 53.08 ATOM 5381 O HOH W 468 37.787 55.035 100.999 1.00 53.08 ATOM 5382 O HOH W 470 10.578 17.685 75.291 1.00 37.43 ATOM 5383 O HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5384 O HOH W 473 23.329 56.116 94.688 1.00 47.73 ATOM 5385 O HOH W 473 23.329 56.116 94.688 1.00 47.73 ATOM 5385 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5389 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5389 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5389 O HOH W 476 -0.555 54.468 74.299 1.00 50.86 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 75.08 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 58.65 ATOM 5390 O HOH W 478 -3.762 26.579 63.779 1.00 58.65 ATOM 5390 O HOH W 478 -3.762 26.579 63.779 1.00 58.65 ATOM 5390 O HOH W 478 -3.762 26.579 63.779 1.00 53.85 ATOM 5390 O HOH W 480 17.94 4.072 70.416 58.486 1.00 58.35 ATOM 5390 O HOH W 480 17.94 4.072 70.416 58.486 1.00 58.35 ATOM 5390 O HOH W 480 17.94 4.072 70.416 58.486 1.00 58.35 ATOM 5390 O HOH W 480 17.94 4.072 70.416 58.486 1.00 58.35 ATOM 5390 O HOH W 480 17.94 10.147 65.663 1.00 68.35 ATOM 5390 O HOH W 480 17.94 10.147 65.663 1.00 68.35 ATOM 5390 O HOH W 480 17.94 10.147 65.663 1.00 68.35 ATOM 5390 O HOH W 480 17.94 10.147 65.663 1.00 68.35 ATOM 5390 O HOH W 480 17.94 10.147 65.663 1.00 69.22 ATOM 5400 O HOH W 480 17.94 10.147 65.663 1.00 69.22 ATOM 5400 O HOH W 490 17.95 65.67 73.95 1.00 42.46 ATOM 5400 O HOH W 490 17.95 65.66 57 73	ATOM								
ATOM 5371 O HOH W 459 26.658 39.474 43.256 1.00 32.50 ATOM 5372 O HOH W 460 30.185 25.893 82.542 1.00 45.40 ATOM 5373 O HOH W 461 20.780 39.620 40.793 1.00 60.63 ATOM 5374 O HOH W 462 -13.804 40.073 67.421 1.00 42.25 ATOM 5375 O HOH W 463 1.328 41.371 78.681 1.00 56.39 ATOM 5376 O HOH W 464 33.554 26.796 70.488 1.00 37.48 ATOM 5377 O HOH W 465 34.317 54.835 70.119 1.00 57.37 ATOM 5378 O HOH W 466 1.781 11.779 66.821 1.00 47.25 ATOM 5378 O HOH W 466 1.781 11.779 66.821 1.00 47.25 ATOM 5380 O HOH W 467 37.877 55.035 100.999 1.00 53.08 ATOM 5380 O HOH W 469 13.794 19.603 83.707 1.00 47.87 ATOM 5381 O HOH W 469 13.794 19.603 83.707 1.00 47.87 ATOM 5382 O HOH W 471 10.578 17.685 75.291 1.00 37.48 ATOM 5385 O HOH W 472 52.811 39.642 69.739 1.00 44.12 ATOM 5385 O HOH W 474 35.936 48.716 94.868 1.00 47.73 ATOM 5386 O HOH W 475 28.119 66.507 82.635 1.00 417.75 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 O HOH W 479 19.595 35.464 81.81 100 35.45 ATOM 5391 O HOH W 478 28.119 66.507 82.635 1.00 41.75 ATOM 5380 O HOH W 478 28.119 66.507 82.635 1.00 41.75 ATOM 5390 O HOH W 479 19.595 35.426 41.883 1.00 53.845 ATOM 5390 O HOH W 479 19.595 35.426 41.883 1.00 53.845 ATOM 5391 O HOH W 478 17.957 10.147 65.643 1.00 35.45 ATOM 5393 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 53.87 ATOM 5395 O HOH W 488 41.17.947 10.147 65.643 1.00 53.87 ATOM 5395 O HOH W 488 11.79.947 10.147 65.663 1.00 42.46 ATOM 5396 O HOH W 488 11.79.947 10.147 65.663 1.00 45.25 ATOM 5390 O HOH W 488 15.256 67.180 84.813 1.00 53.87 ATOM 5390 O HOH W 488 15.256 67.180 84.831 1.00 53.87 ATOM 5390 O HOH W 488 15.256 67.180 84.831 1.00 53.87 ATOM 5390 O HOH W 488 15.256 67.180 70.043 1.00 45.25 ATOM 5400 O HOH W 489 33.746 65.224 50.330 86.611 1.00 47.42 ATOM 5400 O HOH W 489 31.4504 69.382 77.201 1.00 69.22 ATOM 5401 O HOH W 499 33.746 65.225 77.991 1.00 42.46 ATOM 5402 O HOH W 499 30.727 32.358 66.611 1.00 47.42 ATOM 5408 O HOH W 499 30.727 32.35	MOTA	5369	0	HOH W	457	-0.687	61.537	70.644	1.00 40.63
ATOM 5371 0 HOH W 459 26.658 39.474 43.256 1.00 32.50 ATOM 5372 0 HOH W 460 30.185 25.893 82.542 1.00 45.40 ATOM 5373 0 HOH W 461 20.780 39.620 40.793 1.00 60.63 ATOM 5374 0 HOH W 462 -13.804 40.073 67.421 1.00 42.25 ATOM 5375 0 HOH W 463 1.328 41.317 78.681 1.00 56.39 ATOM 5376 0 HOH W 464 33.554 26.796 70.488 1.00 37.48 ATOM 5377 0 HOH W 465 34.317 54.835 70.139 1.00 57.37 ATOM 5378 0 HOH W 466 1.781 11.779 66.821 1.00 47.25 ATOM 5378 0 HOH W 466 1.781 11.779 66.821 1.00 47.25 ATOM 5378 0 HOH W 467 13.278 63.141 46.031 1.00 57.37 ATOM 5380 0 HOH W 469 13.794 19.603 83.707 1.00 47.87 ATOM 5381 0 HOH W 469 13.794 19.603 83.707 1.00 47.87 ATOM 5382 0 HOH W 471 10.578 17.685 75.291 1.00 36.66 ATOM 5383 0 HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5385 0 HOH W 472 52.811 39.642 69.739 1.00 44.12 ATOM 5385 0 HOH W 474 35.936 48.171 65.482 1.00 47.73 ATOM 5386 0 HOH W 475 28.119 66.507 82.635 1.00 417.75 ATOM 5389 0 HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 0 HOH W 478 28.119 66.507 82.635 1.00 41.75 ATOM 5390 0 HOH W 478 28.119 66.507 82.635 1.00 41.75 ATOM 5391 0 HOH W 479 19.595 35.464 81.80 30.51.58 ATOM 5393 0 HOH W 478 4.072 70.416 58.486 1.00 35.45 ATOM 5393 0 HOH W 478 4.072 70.416 58.486 1.00 35.45 ATOM 5393 0 HOH W 478 4.072 70.416 58.486 1.00 35.45 ATOM 5393 0 HOH W 478 4.072 70.416 58.486 1.00 35.45 ATOM 5390 0 HOH W 478 4.072 70.416 58.486 1.00 35.45 ATOM 5391 0 HOH W 478 4.072 70.416 58.486 1.00 35.45 ATOM 5393 0 HOH W 488 24.800 7.578 70.043 1.00 41.13 ATOM 5393 0 HOH W 488 35.129 52.44 51.341 1.00 58.35 ATOM 5394 0 HOH W 488 41.17.947 10.147 65.643 1.00 58.35 ATOM 5395 0 HOH W 488 41.19.955 35.464 51.813 1.00 53.87 ATOM 5396 0 HOH W 488 41.19.955 35.464 51.813 1.00 53.87 ATOM 5390 0 HOH W 488 41.19.955 35.465 41.813 1.00 53.87 ATOM 5400 0 HOH W 488 41.19.83 80.667 41.229 1.00 69.22 ATOM 5401 0 HOH W 498 31.4504 69.382 77.201 1.00 42.46 ATOM 5402 0 HOH W 498 31.4504 69.382 77.201 1.00 42.46 ATOM 5403 0 HOH W 498 31.4504 69.382 77.201 1.00 42.46 ATOM 5404 0 HOH W 498 33.740 52.2464 53.363	ATOM	5370	0	HOH W	458	33.335	31.445	62.420	1.00 32.53
ATOM 5372 O HOH W 460 30.185 25.893 82.542 1.00 45.40 ATOM 5373 O HOH W 461 20.780 39.620 40.793 1.00 60.63 ATOM 5373 O HOH W 462 -13.804 40.073 67.421 1.00 42.25 ATOM 5375 O HOH W 462 -13.804 40.073 67.421 1.00 42.25 ATOM 5375 O HOH W 463 1.328 41.371 78.681 1.00 55.39 ATOM 5377 O HOH W 463 33.554 26.796 70.488 1.00 57.37 ATOM 5378 O HOH W 465 34.317 54.835 70.139 1.00 57.37 ATOM 5378 O HOH W 466 1.781 11.779 66.821 1.00 47.25 ATOM 5379 O HOH W 466 37.787 55.035 100.999 1.00 57.79 ATOM 5380 O HOH W 468 37.787 55.035 100.999 1.00 53.08 ATOM 5381 O HOH W 468 37.787 55.035 100.999 1.00 53.08 ATOM 5381 O HOH W 470 25.470 45.716 93.468 1.00 37.43 ATOM 5382 O HOH W 471 10.578 17.685 75.291 1.00 47.87 ATOM 5386 O HOH W 473 23.329 56.116 94.686 1.00 37.43 ATOM 5386 O HOH W 473 23.329 56.116 94.686 1.00 37.43 ATOM 5385 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5389 O HOH W 476 -0.565 54.408 74.299 1.00 50.86 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5389 O HOH W 478 -3.762 26.579 63.779 1.00 41.75 ATOM 5389 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5389 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5391 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5391 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5392 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5393 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5393 O HOH W 488 -3.762 26.579 63.779 1.00 53.91 ATOM 5393 O HOH W 488 -3.762 26.579 63.779 1.00 53.91 ATOM 5393 O HOH W 488 -3.762 26.579 63.779 1.00 53.91 ATOM 5393 O HOH W 488 -3.762 26.579 63.779 1.00 53.91 ATOM 5393 O HOH W 488 -3.762 26.579 63.779 1.00 53.91 ATOM 5393 O HOH W 488 -3.762 26.579 63.779 1.00 53.91 ATOM 5395 O HOH W 488 -3.762 26.579 63.779 1.00 53.91 ATOM 5395 O HOH W 488 -3.762 26.579 63.779 1.00 53.91 ATOM 5395 O HOH W 488 -3.5129 52.464 51.331 1.00 54.76 ATOM 5400 O HOH W 488 -3.5129 52.464 51.331 1.00 54.76 ATOM 5400 O HOH W 489 -3.762 26.31 1.00 56.62 1.00 55.88 1.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00 37.00			0	HOH W	459			43 256	1 00 32 50
ATOM 5374 O HOH W 461 20.780 39.620 40.793 1.00 60.63 ATOM 5374 O HOH W 462 -13.804 40.073 67.421 1.00 42.25 ATOM 5375 O HOH W 463 1.328 41.371 78.681 1.00 56.39 ATOM 5376 O HOH W 464 33.554 26.796 70.488 1.00 37.48 ATOM 5377 O HOH W 465 34.317 54.835 70.139 1.00 57.79 ATOM 5378 O HOH W 466 1.781 11.779 66.821 1.00 47.25 ATOM 5379 O HOH W 466 1.781 11.779 66.821 1.00 47.25 ATOM 5380 O HOH W 467 13.278 63.141 46.031 1.00 57.79 ATOM 5380 O HOH W 469 13.794 19.603 83.707 1.00 47.87 ATOM 5381 O HOH W 470 25.470 45.716 93.468 1.00 36.66 ATOM 5382 O HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5385 O HOH W 472 52.811 39.642 69.739 1.00 44.12 ATOM 5385 O HOH W 473 23.329 56.116 94.868 1.00 36.66 ATOM 5386 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5388 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5388 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5399 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5390 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5391 O HOH W 478 -3.762 26.579 63.779 1.00 53.45 ATOM 5392 O HOH W 478 -3.762 26.579 63.779 1.00 53.45 ATOM 5393 O HOH W 478 -3.762 26.579 63.779 1.00 53.45 ATOM 5393 O HOH W 478 -3.762 26.579 63.779 1.00 53.45 ATOM 5390 O HOH W 478 -3.762 26.579 63.779 1.00 53.45 ATOM 5391 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5395 O HOH W 488 31.312 52.644 51.431 1.00 54.76 ATOM 5395 O HOH W 488 31.312 52.644 51.431 1.00 54.76 ATOM 5399 O HOH W 488 31.312 52.644 51.431 1.00 54.76 ATOM 5399 O HOH W 488 -11.188 38.057 41.631 1.00 53.87 ATOM 5390 O HOH W 489 31.374 63.00 55.673 1.00 40.25 ATOM 5400 O HOH W 499 33.774 11.179 56.480 1.00 42.46 ATOM 5401 O HOH W 499 33.774 11.179 56.480 1.00 53.87 ATOM 5402 O HOH W 499 33.774 11.179 56.480 1.00 53.87 ATOM 5403 O HOH W 499 33.774 11.179 56.480 1.00 55.17 ATOM 5403 O HOH W 499 30.727 32.338 64.611 1.00 47.92 ATOM 5401 O HOH W 499 30.727 32.338 64.611 1.00 47.42 ATOM 5401 O HOH W 499 30.7374 41.799 41.65.60 1.00 55.17 ATOM 5402 O HOH W 499 30.7374 41.799 41.65.60 1.0									
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ATOM 5375 O HOH W 463	ATOM	5373	0	HOH W	461	20.780	39.620	40.793	1.00 60.63
ATOM 5376	ATOM	5374	0	HOH W	462	-13.804	40.073	67.421	1.00 42.25
ATOM 5376	Δ TΩM	5375	Ω	HOH W	463	1.328	41.371	78.681	1.00 56.39
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ATOM 5389 O HOH W 468 37.787 55.035 100.999 1.00 53.08 ATOM 5381 O HOH W 469 13.794 19.603 83.707 1.00 47.87 ATOM 5382 O HOH W 470 25.470 45.716 93.468 1.00 36.66 ATOM 5383 O HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5383 O HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5385 O HOH W 472 52.811 39.642 69.739 1.00 47.87 ATOM 5385 O HOH W 473 23.329 56.116 94.868 1.00 47.73 ATOM 5385 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5388 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5388 O HOH W 476 -0.565 54.408 74.299 1.00 50.86 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 O HOH W 478 -3.762 26.579 63.779 1.00 35.45 ATOM 5391 O HOH W 478 -3.762 26.579 63.779 1.00 51.58 ATOM 5393 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5393 O HOH W 484 31.312 44.348 64.437 1.00 58.35 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5395 O HOH W 484 35.1312 44.348 64.437 1.00 48.35 ATOM 5399 O HOH W 484 35.1312 44.348 64.437 1.00 54.76 ATOM 5399 O HOH W 488 35.129 52.464 51.431 1.00 53.87 ATOM 5395 O HOH W 488 35.129 52.464 51.431 1.00 63.87 ATOM 5395 O HOH W 488 35.129 52.464 51.431 1.00 63.87 ATOM 5396 O HOH W 488 35.129 52.464 51.431 1.00 69.22 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 46.25 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 54.76 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 59.22 ATOM 5402 O HOH W 489 15.256 67.180 75.313 1.00 59.22 ATOM 5405 O HOH W 499 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 499 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 499 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 499 3.374 63.019 56.672 1.00 49.06 ATOM 5403 O HOH W 499 3.374 63.019 56.672 1.00 45.25 ATOM 5402 O HOH W 499 3.374 63.019 56.672 1.00 50.14 ATOM 5403 O HOH W 499 3.374 63.019 56.672 1.00 50.14 ATOM 5403 O HOH W 499 3.374 63.019 56.672 1.00 50.14 ATOM 5403 O HOH W 499 30.727 32.353 49.843 1.00 50.14 ATOM 5403 O HOH W 499 30.727 32.353 49.840 1.00 50.14 ATOM 5401 O HOH W 499 30.727 32.353 49.840 1.00 50.23 A	ATOM	5378	0	HOH W	466	1.781	11.779	66.821	1.00 47.25
ATOM 5380 O HOH W 468 13.787 55.035 100.999 1.00 53.08 ATOM 5381 O HOH W 469 13.794 19.603 83.707 1.00 47.87 ATOM 5382 O HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5383 O HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5384 O HOH W 472 52.811 39.642 69.739 1.00 44.12 ATOM 5385 O HOH W 473 23.329 56.116 94.868 1.00 58.05 ATOM 5386 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5387 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5388 O HOH W 476 -0.565 54.408 74.299 1.00 50.86 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5391 O HOH W 479 19.595 35.426 41.883 1.00 53.91 ATOM 5393 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5394 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5395 O HOH W 488 46.224 50.030 81.043 1.00 58.35 ATOM 5395 O HOH W 488 46.224 50.030 81.043 1.00 58.35 ATOM 5395 O HOH W 488 46.224 50.030 81.043 1.00 58.35 ATOM 5395 O HOH W 488 46.224 50.030 81.043 1.00 58.35 ATOM 5395 O HOH W 488 46.224 50.030 81.043 1.00 58.35 ATOM 5395 O HOH W 488 46.224 50.030 81.043 1.00 58.35 ATOM 5395 O HOH W 488 46.224 50.030 81.043 1.00 58.35 ATOM 5395 O HOH W 488 46.224 50.030 81.043 1.00 58.91 ATOM 5395 O HOH W 488 46.224 50.030 81.043 1.00 58.91 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5400 O HOH W 488 15.256 67.180 75.313 1.00 59.22 ATOM 5402 O HOH W 489 15.256 67.180 75.313 1.00 59.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 49.06 ATOM 5403 O HOH W 491 30.082 15.975 73.955 1.00 49.06 ATOM 5403 O HOH W 493 31.450 45.90 75.313 1.00 50.14 ATOM 5403 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5403 O HOH W 499 30.727 32.353 49.843 1.00 62.33 ATOM 5400 O HOH W 499 30.727 32.353 49.843 1.00 62.33 ATOM 5400 O HOH W 499 30.727 32.353 49.843 1.00 62.33 ATOM 5410 O HOH W 499 30.727 32.353 49.843 1.00 62.33 ATOM 5410 O HOH W 499 30.727 32.353 49.843 1.00 62.33 ATOM 5410 O HOH W 499 30.727 32.353 49.843 1.00 62.33 ATOM 5410 O HOH W 499 30.727 32.353 49.843 1.00 62.3		5379	0	HOH W	467	13.278	63.141	46.031	1.00 57.79
ATOM 5381 O HOH W 469 13.794 19.603 83.707 1.00 47.87 ATOM 5382 O HOH W 470 25.470 45.716 93.468 1.00 36.66 ATOM 5383 O HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5384 O HOH W 472 52.811 39.642 69.739 1.00 44.12 ATOM 5385 O HOH W 473 23.329 56.116 94.868 1.00 47.73 ATOM 5387 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5388 O HOH W 476 28.119 66.507 82.635 1.00 41.75 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 O HOH W 479 19.595 35.426 41.883 1.00 51.58 ATOM 5390 O HOH W 479 19.595 35.426 41.883 1.00 51.58 ATOM 5393 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5399 O HOH W 485 5.885 65.189 84.813 1.00 53.87 ATOM 5399 O HOH W 488 36.224 50.030 81.043 1.00 53.87 ATOM 5399 O HOH W 488 36.224 50.030 81.043 1.00 53.87 ATOM 5399 O HOH W 488 36.224 50.030 81.043 1.00 53.87 ATOM 5399 O HOH W 485 5.885 65.189 84.813 1.00 53.87 ATOM 5399 O HOH W 485 5.885 65.189 84.813 1.00 53.91 ATOM 5399 O HOH W 487 -5.180 21.053 56.028 1.00 37.00 ATOM 5399 O HOH W 488 15.256 67.180 75.313 1.00 54.76 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 54.76 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5403 O HOH W 499 33.744 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 499 37.374 41.179 54.837 1.00 53.88 ATOM 5403 O HOH W 499 37.374 41.179 54.837 1.00 53.88 ATOM 5400 O HOH W 499 37.374 41.179 54.837 1.00 55.17 ATOM 5400 O HOH W 499 37.374 41.179 54.837 1.00 55.85 ATOM 5400 O HOH W 499 37.374 41.179 54.837 1.00 55.17 ATOM 5400 O HOH W 499 37.374 41.179 54.837 1.00 65.28 ATOM 5400 O HOH W 499 37.374 41.179 54.837 1.00 65.28 ATOM 5400 O HOH W 499 37.374 41.179 54.837 1.00 65.28 ATOM 5410 O HOH W 499 37.374 41.179 54.837 1.00 65.28 ATOM 5410 O HOH W 499 30.727 32.353 49.843 1.00 56.22									
ATOM 5382 O HOH W 470									
ATOM 5383 O HOH W 471 10.578 17.685 75.291 1.00 37.43 ATOM 5384 O HOH W 472 52.811 39.642 69.739 1.00 44.12 ATOM 5385 O HOH W 473 23.329 56.116 94.868 1.00 47.73 ATOM 5386 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5387 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5388 O HOH W 476 -0.565 54.408 74.299 1.00 50.86 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5399 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5391 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5392 O HOH W 481 17.947 10.147 65.643 1.00 51.58 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5394 O HOH W 482 31.312 44.348 64.37 1.00 48.49 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5396 O HOH W 484 35.129 52.464 51.431 1.00 53.87 ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 53.87 ATOM 5399 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 488 15.256 67.180 75.313 1.00 51.22 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5403 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5404 O HOH W 499 30.374 63.019 56.672 1.00 49.06 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5407 O HOH W 493 14.504 69.382 77.201 1.00 79.55 ATOM 5408 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5409 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5409 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5410 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.28 ATOM 5412 O HOH W 500 18.095 60.627 94.715 1.00 47.42 ATOM 5413 O HOH W 500 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 500 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 500 28.806 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 500 28.806 31.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 28.806 31.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 28.806 31.026 81.802 1.00 47.42	ATOM	5381	0	HOH W	469	13.794	19.603	83.707	
ATOM 5384 O HOH W 472 52.811 39.642 69.739 1.00 44.12 ATOM 5385 O HOH W 473 23.329 56.116 94.868 1.00 47.73 ATOM 5386 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5387 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5388 O HOH W 477 4.072 70.416 58.486 1.00 50.86 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5391 O HOH W 479 19.595 35.426 41.883 1.00 51.58 ATOM 5392 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.387 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 58.87 ATOM 5395 O HOH W 484 35.129 52.464 51.431 1.00 54.76 ATOM 5397 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 41.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 489 13.082 15.975 73.952 1.00 49.06 ATOM 5403 O HOH W 490 3.374 63.019 56.028 1.00 37.00 ATOM 5400 O HOH W 490 3.374 63.019 56.028 1.00 53.88 ATOM 5401 O HOH W 499 3.374 63.019 56.028 1.00 53.88 ATOM 5402 O HOH W 499 3.374 63.019 56.028 1.00 53.88 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5400 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5401 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5401 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5402 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5403 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5401 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5410 O HOH W 498 35.740 52.664 42.604 1.00 47.42 ATOM 5411 O HOH W 500 0.025 32.686 42.604 1.00 47.42 ATOM 5411 O HOH W 501 18.095 60.627 94.715 1.00 46.99 ATOM 5415 O HOH W 501 18.095 60.627 94.715 1.00 46.99 ATOM 5416 O HOH W 501 28.666 77.990 79.237 1.00 46.99 ATOM 5416 O HOH W 501 28.666 77.990 79.237 1.00 46.99	ATOM	5382	0	HOH W	470	25.470	45.716	93.468	1.00 36.66
ATOM 5384 O HOH W 472 52.811 39.642 69.739 1.00 44.12 ATOM 5385 O HOH W 473 23.329 56.116 94.868 1.00 47.73 ATOM 5386 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5387 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5388 O HOH W 477 4.072 70.416 58.486 1.00 50.86 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5391 O HOH W 479 19.595 35.426 41.883 1.00 51.58 ATOM 5392 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.387 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 58.87 ATOM 5395 O HOH W 484 35.129 52.464 51.431 1.00 54.76 ATOM 5397 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 41.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 489 13.082 15.975 73.952 1.00 49.06 ATOM 5403 O HOH W 490 3.374 63.019 56.028 1.00 37.00 ATOM 5400 O HOH W 490 3.374 63.019 56.028 1.00 53.88 ATOM 5401 O HOH W 499 3.374 63.019 56.028 1.00 53.88 ATOM 5402 O HOH W 499 3.374 63.019 56.028 1.00 53.88 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5400 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5401 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5401 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5402 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5403 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5401 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5410 O HOH W 498 35.740 52.664 42.604 1.00 47.42 ATOM 5411 O HOH W 500 0.025 32.686 42.604 1.00 47.42 ATOM 5411 O HOH W 501 18.095 60.627 94.715 1.00 46.99 ATOM 5415 O HOH W 501 18.095 60.627 94.715 1.00 46.99 ATOM 5416 O HOH W 501 28.666 77.990 79.237 1.00 46.99 ATOM 5416 O HOH W 501 28.666 77.990 79.237 1.00 46.99	MOTA	5383	0	HOH W	471	10.578	17.685	75.291	1.00 37.43
ATOM 5385 O HOH W 473 23.329 56.116 94.868 1.00 47.73 ATOM 5386 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5387 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5388 O HOH W 476 -0.565 54.408 74.299 1.00 50.86 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5391 O HOH W 479 19.595 35.426 41.883 1.00 51.58 ATOM 5392 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5394 O HOH W 482 31.312 44.348 64.437 1.00 48.49 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5396 O HOH W 483 46.224 50.030 81.043 1.00 54.76 ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 54.76 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 69.22 ATOM 5404 O HOH W 499 3.374 63.019 56.672 1.00 42.46 ATOM 5405 O HOH W 499 3.374 63.019 56.672 1.00 42.46 ATOM 5406 O HOH W 499 3.374 63.019 56.672 1.00 49.50 ATOM 5407 O HOH W 499 37.374 41.179 54.837 1.00 53.88 ATOM 5408 O HOH W 494 37.374 41.179 54.837 1.00 53.88 ATOM 5409 O HOH W 495 22.651 62.725 71.998 1.00 62.33 ATOM 5409 O HOH W 496 33.5740 52.464 53.693 1.00 50.14 ATOM 5409 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5401 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5401 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 500 18.095 60.627 94.715 1.00 47.42 ATOM 5412 O HOH W 500 18.095 60.627 94.715 1.00 47.42 ATOM 5414 O HOH W 500 18.095 60.627 94.715 1.00 47.42 ATOM 5415 O HOH W 500 28.006 67.990 79.237 1.00 47.55 ATOM 5416 O HOH W 500 18.095 60.627 94.715 1.00 47.42 ATOM 5416 O HOH W 500 18.095 60.627 94.715 1.00 47.42 ATOM 5416 O HOH W 500 48.696 79.90 79.237 1.00 46.59									
ATOM 5386 O HOH W 474 35.936 48.711 65.428 1.00 58.05 ATOM 5387 O HOH W 475 28.119 66.507 82.635 1.00 41.75 ATOM 5388 O HOH W 476 -0.565 54.408 74.299 1.00 50.86 ATOM 5389 O HOH W 477 4.072 70.416 58.486 1.00 35.45 ATOM 5390 O HOH W 478 -3.762 26.579 63.779 1.00 53.91 ATOM 5391 O HOH W 479 19.595 35.426 41.883 1.00 51.58 ATOM 5392 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5393 O HOH W 482 31.312 44.348 64.437 1.00 58.35 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5395 O HOH W 485 5.885 65.189 84.813 1.00 53.87 ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 53.91 ATOM 5399 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 487 -5.180 21.053 56.028 1.00 37.00 ATOM 5400 O HOH W 488 15.256 67.180 74.1229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5408 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5408 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5408 O HOH W 499 30.727 32.348 64.350 1.00 53.88 ATOM 5408 O HOH W 499 30.727 32.353 49.843 1.00 55.17 ATOM 5408 O HOH W 499 30.727 32.353 49.843 1.00 55.17 ATOM 5401 O HOH W 499 30.727 32.353 49.843 1.00 55.17 ATOM 5410 O HOH W 499 30.727 32.353 49.843 1.00 55.17 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 47.42 ATOM 5411 O HOH W 500 0.025 32.686 42.604 1.00 47.42 ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 47.42 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5415 O HOH W 500 0.025 32.686 42.604 1.00 47.42 ATOM 5415 O HOH W 500 0.025 32.686 42.604 1.00 47.42 ATOM 5415 O HOH W 500 0.025 32.686 42.604 1.00 47.42 ATOM 5416 O HOH W 500 0.025 32.636 81.802 1.00 37.32 ATOM 5416 O HOH W 500 2.306 31.026 81.802 1.00 37.32 ATOM									
ATOM 5387 O HOH W 475	MOTA		O						
ATOM 5388 O HOH W 476	MOTA	5386	0	HOH W	474	35.936	48.711	65.428	1.00 58.05
ATOM 5388 O HOH W 476	ATOM	5387	0	HOH W	475	28.119	66.507	82.635	1.00 41.75
ATOM 5389 O HOH W 477			0	W HOH	476	-0.565	54.408	74.299	1.00 50.86
ATOM 5390 O HOH W 478									
ATOM 5391 O HOH W 479 19.595 35.426 41.883 1.00 51.58 ATOM 5392 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5394 O HOH W 482 31.312 44.348 64.437 1.00 48.49 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5396 O HOH W 484 35.129 52.464 51.431 1.00 54.76 ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 83.91 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5403 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 53.88 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 59.28 ATOM 5406 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5408 O HOH W 494 37.374 41.179 54.837 1.00 51.42 ATOM 5408 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 60.23 ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 65.33 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 56.92 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5411 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5412 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5415 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5415 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5415 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5415 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5415 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5415 O HOH W 504 -8.696 27.990 79.237 1.00 47.15 ATOM 5418 O HOH W 505 22.334 70.217 89.142 1.00 37.35									
ATOM 5392 O HOH W 480 24.800 7.578 70.043 1.00 41.13 ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5394 O HOH W 482 31.312 44.348 64.437 1.00 48.49 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5396 O HOH W 484 35.129 52.464 51.431 1.00 54.76 ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 83.91 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 55.17 ATOM 5408 O HOH W 497 -1.906 45.997 36.480 1.00 62.33 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5411 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5412 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5413 O HOH W 500 0.025 32.686 42.604 1.00 42.33 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5415 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5416 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5417 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5416 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5416 O HOH W 501 48.895 60.627 94.715 1.00 65.28 ATOM 5416 O HOH W 501 48.896 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5418 O HOH W 504 -8.696 27.990 79.237 1.00 46.99	ATOM	5390	0	HOH W	478	-3.762	26.579	63.779	
ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5394 O HOH W 482 31.312 44.348 64.437 1.00 48.49 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5396 O HOH W 484 35.129 52.464 51.431 1.00 54.76 ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 83.91 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5400 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14 ATOM 5408 O HOH W 497 -1.906 45.997 36.480 1.00 52.17 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5411 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5412 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5413 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5413 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5413 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 500 1.8095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 500 1.8095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 500 2.306 31.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 47.15 ATOM 5418	MOTA	5391	0	HOH W	479	19.595	35.426	41.883	1.00 51.58
ATOM 5393 O HOH W 481 17.947 10.147 65.643 1.00 58.35 ATOM 5394 O HOH W 482 31.312 44.348 64.437 1.00 48.49 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5396 O HOH W 484 35.129 52.464 51.431 1.00 83.91 ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 83.91 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 487 -5.180 21.053 56.028 1.00 37.00 ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14 ATOM 5408 O HOH W 497 -1.906 45.997 36.480 1.00 52.17 ATOM 5410 O HOH W 499 30.727 32.353 49.843 1.00 55.17 ATOM 5411 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5412 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5413 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5413 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5413 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5413 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 500 1.8095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 37.32 ATOM 5415 O HOH W 500 2.306 81.026 81.802 1.00 47.15 ATOM 5416 O HOH W 500 2.2034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 500 2.2034 70.217 89.142 1.00 47.15	MOTA	5392	0	HOH W	480	24.800	7.578	70.043	1.00 41.13
ATOM 5394 O HOH W 482 31.312 44.348 64.437 1.00 48.49 ATOM 5395 O HOH W 483 46.224 50.030 81.043 1.00 53.87 ATOM 5396 O HOH W 484 35.129 52.464 51.431 1.00 54.76 ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 83.91 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 492 -7.562 32.348 64.350 1.00 53.88 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14 ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 500 18.095 60.627 94.715 1.00 65.28 ATOM 5414 O HOH W 501 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 505 22.034 70.217 89.142 1.00 47.15								65 643	1 00 58 35
ATOM 5395 O HOH W 483									
ATOM 5396 O HOH W 484 35.129 52.464 51.431 1.00 54.76 ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 83.91 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 487 -5.180 21.053 56.028 1.00 37.00 ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 492 -7.562 32.348 64.350 1.00 53.88 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14 ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 505 22.034 70.217 89.142 1.00 47.15	ATOM								
ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 83.91 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 487 -5.180 21.053 56.028 1.00 37.00 ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 492 -7.562 32.348 64.350 1.00 53.88 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5413 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5414 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5415 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5416 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 505 22.034 70.217 89.142 1.00 47.15	MOTA	5395	0	HOH W	483	46.224	50.030	81.043	1.00 53.87
ATOM 5397 O HOH W 485 5.885 65.189 84.813 1.00 83.91 ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 487 -5.180 21.053 56.028 1.00 37.00 ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 492 -7.562 32.348 64.350 1.00 53.88 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 62.33 ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 505 22.034 70.217 89.142 1.00 47.15	ATOM	5396	0	HOH W	484	35.12 <b>9</b>	52.464	51.431	1.00 54.76
ATOM 5398 O HOH W 486 20.281 16.200 55.863 1.00 46.25 ATOM 5399 O HOH W 487 -5.180 21.053 56.028 1.00 37.00 ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 492 -7.562 32.348 64.350 1.00 53.88 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14 ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 500 0.025 32.686 42.604 1.00 47.42 ATOM 5415 O HOH W 500 18.095 60.627 94.715 1.00 65.28 ATOM 5416 O HOH W 500 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 500 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 500 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 500 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 505 22.034 70.217 89.142 1.00 47.15		5397	O	нон м	485	5.885	65.189	84.813	1.00 83.91
ATOM 5399 O HOH W 487 -5.180 21.053 56.028 1.00 37.00 ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22 ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22 ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46 ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06 ATOM 5404 O HOH W 492 -7.562 32.348 64.350 1.00 53.88 ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52 ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94 ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62 ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14 ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5415 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5417 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 505 22.136 73.412 87.005 1.00 38.47									
ATOM 5400 O HOH W 488 -11.188 38.067 41.229 1.00 69.22  ATOM 5401 O HOH W 489 15.256 67.180 75.313 1.00 51.22  ATOM 5402 O HOH W 490 3.374 63.019 56.672 1.00 42.46  ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06  ATOM 5404 O HOH W 492 -7.562 32.348 64.350 1.00 53.88  ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52  ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94  ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62  ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14  ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33  ATOM 5410 O HOH W 499 30.727 32.353 49.843 1.00 55.17  ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92  ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23  ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42  ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28  ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32  ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99  ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15  ATOM 5418 O HOH W 505 22.034 70.217 89.142 1.00 47.15									
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ATOM 5403 O HOH W 491 30.082 15.975 73.952 1.00 49.06  ATOM 5404 O HOH W 492 -7.562 32.348 64.350 1.00 53.88  ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52  ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94  ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62  ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14  ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33  ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17  ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92  ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23  ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42  ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28  ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32  ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99  ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15  ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47			0	и нон	490	3 374	63.019	56.672	1.00 42.46
ATOM 5404 O HOH W 492 -7.562 32.348 64.350 1.00 53.88  ATOM 5405 O HOH W 493 14.504 69.382 77.201 1.00 79.52  ATOM 5406 O HOH W 494 37.374 41.179 54.837 1.00 41.94  ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62  ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14  ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33  ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17  ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92  ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23  ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42  ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28  ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32  ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99  ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15  ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47									
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ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62  ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14  ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33  ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17  ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92  ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23  ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42  ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28  ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32  ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99  ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15  ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47	ATOM	5405	0	HOH W	493	14.504	69.382	77.201	1.00 79.52
ATOM 5407 O HOH W 495 22.651 62.725 71.998 1.00 46.62  ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14  ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33  ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17  ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92  ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23  ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42  ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28  ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32  ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99  ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15  ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47	MOTA	5406	0	HOH W	494	37.374	41.179	54.837	1.00 41.94
ATOM 5408 O HOH W 496 13.052 47.941 46.569 1.00 50.14 ATOM 5409 O HOH W 497 -1.906 45.997 36.480 1.00 62.33 ATOM 5410 O HOH W 498 35.740 52.464 53.693 1.00 55.17 ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47									
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ATOM 5411 O HOH W 499 30.727 32.353 49.843 1.00 56.92 ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47	ATOM	5410	0	HOH W	498	35.740	52.464	53.693	1.00 55.17
ATOM 5412 O HOH W 500 0.025 32.686 42.604 1.00 48.23 ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47			0	HOH W	499	30.727		49.843	1.00 56.92
ATOM 5413 O HOH W 501 47.830 56.735 86.611 1.00 47.42 ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47									
ATOM 5414 O HOH W 502 18.095 60.627 94.715 1.00 65.28 ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47									
ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47	ATOM	5413	0						
ATOM 5415 O HOH W 503 2.306 31.026 81.802 1.00 37.32 ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47	ATOM	5414	0	HOH W	502	18.095	60.627	94.715	1.00 65.28
ATOM 5416 O HOH W 504 -8.696 27.990 79.237 1.00 46.99 ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47	MOTA	5415	0	HOH W	503	2.306	31.026	81.802	1.00 37.32
ATOM 5417 O HOH W 505 22.034 70.217 89.142 1.00 47.15 ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47									
ATOM 5418 O HOH W 506 22.136 73.412 87.005 1.00 38.47									
ATOM 5419 O HOH W 507 -0.926 26.674 74.129 1.00 58.76				HOH W	506				
	MOTA	5419	0	HOH W	507	-0.926	26.674	74.129	1.00 58.76

MOTA	5420	0	HOH	W	508	-6.108	48.377	71.102	1.00 64.56
ATOM	5421	0	HOH	W	509	39.520	39.424	56.576	1.00 72.80
MOTA	5422	0	HOH	W	510	-4.081	58.518	47.377	1.00 60.65
ATOM	5423	0	HOH	W	511	34.434	23.876	75.179	1.00 48.53
MOTA	5424	0	HOH	W	512	17.400	63.380	50.267	1.00 40.76
ATOM	5425	0	нон	W	513	9.647	61.533	68.296	1.00 46.31
MOTA	5426	0	HOH	W	514	41.430	58.961	99.800	1.00 49.23
MOTA	5427	0	нон	W	515	23.725	20.340	53.830	1.00 51.65
ATOM	5428	0	HOH	W	516	15.576	16.190	78.131	1.00 61.27
MOTA	5429	0	HOH	W	517	29.334	21.375	75.882	1.00 44.80
ATOM	5430	0	нон	W	518	-1.624	50.514	39.683	1.00 49.85
MOTA	5431	0	нон	W	519	8.771	69.104	72.705	1.00 47.81
ATOM	5432	0	нон	W	520	-21.311	45.001	55.217	1.00 64.01
MOTA	5433	0	нон	W	521	-1.392	54.790	67.171	1.00 53.90
ATOM	5434	0	нон	W	522	38.464	56.277	74.548	1.00 63.93
ATOM	5435	0	нон	W	523	33.977	32.491	81.832	1.00 50.18
ATOM	5436	0	нон	W	524	16.060	54.317	91.714	1.00 61.57
ATOM	5437	0	нон	W	525	21.009	33.700	89.176	1.00 65.31
ATOM	5438	0	НОН	W	526	28.726	36.253	85.146	1.00 34.76
ATOM	5439	0	нон	W	527	24.767	40.641	41.912	1.00 44.57
ATOM	5440	0	нон	W	528	40.708	69.261	83.251	1.00 39.08
ATOM	5441	0	нон	W	529	28.264	48.404	92.814	1.00 34.64
ATOM	5442	0	нон	W	530	19.375	61.177	66.689	1.00 44.16
ATOM	5443	0	HOH	W	531	6.639	42.598	82.079	1.00100.00
ATOM	5444	0	нон	W	532	40.403	33.306	64.502	1.00 45.36
MOTA	5445	0	HOH	W	533	16.172	18.117	52.264	1.00 44.76
ATOM	5446	0	HOH	W	534	33.899	42.310	48.851	1.00 52.28
ATOM	5447	0	HOH	W	535	22.675	9.894	76.942	1.00 51.28
MOTA	5448	0	HOH	W	536	-11.295	52.730	60.674	1.00 76.16
ATOM	5449	0	HOH	W	537	20.605	66.466	58.378	1.00 61.62
MOTA	5450	0	HOH	W	538	35.282	26.341	50.576	1.00 58.72
ATOM	5451	0	HOH	W	539	-0.234	39.225	40.255	1.00 54.13
ATOM	5452	0	HOH	W	540	36.597	43.931	57.481	1.00 43.52
MOTA	5453	0	HOH	W	541	20.374	41.951	74.120	1.00 47.12
MOTA	5454	0	HOH	W		31.857	31.721	82.689	1.00 46.66
MOTA	5455	0	HOH			34.733	63.213	92.164	1.00 55.58
MOTA	5456	0	HOH	W	544	-20.506	26.471	44.860	1.00 73.89
MOTA	5457	0	HOH	W	545	37.699	32.453	62.558	1.00 46.00
MOTA	5458	0	HOH			8.296	38.910	67.642	1.00 39.42
MOTA	5459	0	HOH			0.194	69.671	72.188	1.00 47.07
MOTA	5460	0	HOH			32.212	52.268	51.134	1.00 52.82
MOTA	5461	0	HOH			33.917	21.004	64.439	1.00 26.12
MOTA	5462	0	HOH			42.573	58.916	95.252	1.00 20.78
ATOM	5463	0	HOH	W	551	34.529	66.786	72.611	1.00 36.24

Table 10: Structure coordinates of LTA₄ hydrolase-thiolamine complex

SCALE2	CRYST	68.	560	132	.150	83.2	70 90.0	0 90.00	90.00	P21212
SCALE3	SCALE1		0.0	1459	0	.00000	0.0000	0	0.00000	
ATOM	SCALE2		0.0	0000	0	.00757	0.0000	0	0.00000	
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ATOM 11 O GLU A 2 -2.512 21.542 66.562 1.00 93.21 ATOM 12 CB GLU A 2 -4.105 20.768 64.214 1.00 97.26 ATOM 13 CG GLU A 2 -4.105 20.768 64.214 1.00 97.26 ATOM 14 CD GLU A 2 -4.587 21.732 63.125 1.00100.00 ATOM 15 OEI GLU A 2 -3.301 21.261 61.152 1.00100.00 ATOM 16 OE2 GLU A 2 -3.301 21.261 61.152 1.00100.00 ATOM 17 N ILE A 3 -1.550 22.799 64.944 1.00 86.29 ATOM 18 CA LLE A 3 -1.148 23.905 65.820 1.00 86.29 ATOM 19 C ILE A 3 -2.835 25.288 64.763 1.00 75.68 ATOM 20 O ILE A 3 -2.835 25.288 64.763 1.00 75.68 ATOM 21 CB ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 22 CGI ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 23 CG2 ILE A 3 1.198 23.160 65.300 1.00 81.63 ATOM 24 CDI ILE A 3 -0.184 25.361 63.375 1.00 91.36 ATOM 25 N VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 26 CA VAL A 4 -1.658 28.552 66.623 1.00 61.54 ATOM 27 C VAL A 4 -1.658 28.552 66.623 1.00 61.54 ATOM 28 O VAL A 4 -0.803 28.594 67.512 1.00 47.84 ATOM 29 CB VAL A 4 -3.735 28.754 68.047 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.99 ATOM 31 CG2 VAL A 4 -3.735 28.754 68.047 1.00 58.99 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 39.38 ATOM 36 CB ASP A 5 -1.403 30.782 65.763 1.00 39.38 ATOM 37 CG ASP A 5 -2.202 29.486 65.732 1.00 39.38 ATOM 39 OD2 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 39 OD2 ASP A 5 -0.251 32.581 64.563 1.00 32.08 ATOM 39 OD2 ASP A 5 -0.251 32.581 66.574 1.00 32.08 ATOM 40 N THR A 6 -2.701 32.507 68.842 1.00 32.08 ATOM 40 N THR A 6 -2.701 32.507 68.842 1.00 32.08 ATOM 41 CA THR A 6 -2.701 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.701 32.507 68.842 1.00 32.08 ATOM 44 CB THR A 6 -2.701 32.507 68.842 1.00 32.08 ATOM 45 CG THR A 6 -2.701 32.507 68.842 1.00 32.32 ATOM 46 CG THR A 6 -2.701 32.507 68.842 1.00 32.08 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.797 35.923 67.335 1.00 25.42	MOTA	9		GLU	Α		-2.569	20.678	64.314	1.00 95.71
ATOM 12 CB GLU A 2 -4.105 20.768 64.214 1.00 97.26 ATOM 13 CG GLU A 2 -4.587 21.732 63.125 1.00100.00 ATOM 14 CD GLU A 2 -4.351 21.339 61.767 1.00100.00 ATOM 15 OEI GLU A 2 -3.301 21.261 61.152 1.00100.00 ATOM 16 OE2 GLU A 2 -5.361 20.398 61.368 1.00100.00 ATOM 17 N ILE A 3 -1.550 22.799 64.944 1.00 81.53 ATOM 18 CA LLE A 3 -1.148 23.905 65.820 1.00 81.53 ATOM 19 C ILE A 3 -2.006 25.154 65.661 1.00 75.68 ATOM 20 O ILE A 3 -2.835 25.288 64.763 1.00 76.97 ATOM 21 CB ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 22 CG1 ILE A 3 0.452 25.521 64.759 1.00 83.63 ATOM 23 CG2 ILE A 3 1.198 23.160 65.300 1.00 84.76 ATOM 24 CD1 ILE A 3 0.452 25.521 64.759 1.00 83.63 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 50.98 ATOM 27 C VAL A 4 -2.477 27.303 66.482 1.00 50.98 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 50.98 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CG1 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 36 CB ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 37 CG ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 38 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 38 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 37 CG ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 38 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 37 CG ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 38 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 37 CG ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 38 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 37 CG ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 38 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 37 CG ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 38 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 39 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 39 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 39 ODL ASP A 5 -2.012 29.486 65.763 1.00 30.79 ATOM 39 ODL ASP A 5 -2.012 29.70 66.6139 1.00 30.79 ATOM 39 ODL ASP A 5 -2.012 30.70 30.79 66.129 1.0		10	C					21.701	65.386	1.00 94.33
ATOM 13 CG GLU A 2 -4.587 21.732 63.125 1.00100.00 ATOM 14 CD GLU A 2 -4.351 21.139 61.767 1.00100.00 ATOM 15 OEI GLU A 2 -3.301 21.261 61.152 1.00100.00 ATOM 16 OE2 GLU A 2 -5.361 20.398 61.368 1.00100.00 ATOM 17 N LLE A 3 -1.550 22.799 64.944 1.00 86.29 ATOM 18 CA LLE A 3 -1.550 22.799 64.944 1.00 86.29 ATOM 19 C LLE A 3 -2.006 25.154 65.661 1.00 75.68 ATOM 20 O LLE A 3 -2.835 25.288 64.763 1.00 75.68 ATOM 20 O LLE A 3 -2.835 25.288 64.763 1.00 75.68 ATOM 21 CB LLE A 3 0.452 25.521 64.759 1.00 83.63 ATOM 22 CG1 LLE A 3 0.452 25.521 64.759 1.00 83.63 ATOM 23 CG2 LLE A 3 1.198 23.160 65.300 1.00 84.76 ATOM 24 CD1 LLE A 3 -0.184 25.361 63.375 1.00 91.36 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 27 C VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 29 CB VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 31 CG2 VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 31 CG2 VAL A 4 -3.514 27.318 67.595 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.763 1.00 39.38 ATOM 33 CA ASP A 5 -2.012 29.486 65.763 1.00 39.38 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 32.96 ATOM 38 ODL ASP A 5 -2.308 31.596 66.634 1.00 32.996 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 32.996 ATOM 38 ODL ASP A 5 -2.308 31.596 66.634 1.00 32.996 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 32.996 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 32.996 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 38 ODL ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 39 ODL ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 39 ODL ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 39 ODL ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 39 ODL ASP A 5 -2.308 31.745 67.993 1.00 32.	MOTA	11		GLU	A		-2.512	21.542	66.562	1.00 93.21
ATOM 14 CD GLU A 2 -4.351 21.139 61.767 1.00100.00 ATOM 15 OEI GLU A 2 -3.301 21.261 61.152 1.00100.00 ATOM 16 OE2 GLU A 2 -5.361 20.398 61.368 1.00100.00 ATOM 17 N ILE A 3 -1.550 22.799 64.944 1.00 86.29 ATOM 18 CA ILE A 3 -1.550 22.799 64.944 1.00 86.29 ATOM 19 C ILE A 3 -2.006 25.154 65.661 1.00 75.68 ATOM 20 O ILE A 3 -2.835 25.288 64.763 1.00 75.68 ATOM 21 CB ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 22 CGI ILE A 3 0.452 25.521 64.759 1.00 83.63 ATOM 23 CG2 ILE A 3 0.452 25.521 64.759 1.00 83.63 ATOM 24 CDI ILE A 3 -0.184 25.361 65.300 1.00 84.76 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 50.32 ATOM 27 C VAL A 4 -2.477 27.303 66.482 1.00 50.98 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 50.98 ATOM 30 CGI VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CGI VAL A 4 -3.514 27.318 67.595 1.00 58.56 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 39.38 ATOM 34 C ASP A 5 -1.403 30.782 65.763 1.00 39.38 ATOM 36 CB ASP A 5 -1.403 30.782 65.763 1.00 39.99 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 35.01 ATOM 39 OD2 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 39 OD2 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.08 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 44 CB THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 44 CB THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 45 OG1 THR A 6 -2.789 30.741 70.606 1.00 35.79 ATOM 46 CG2 THR A 6 -2.789 30.741 70.606 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.797 35.923 65.875 1.00 25.42	MOTA	12	CB	GLU	A	2	-4.105	20.768	64.214	1.00 97.26
ATOM 15 OE1 GLU A 2 -3.301 21.261 61.152 1.00100.00 ATOM 16 OE2 GLU A 2 -5.361 20.398 61.368 1.00100.00 ATOM 17 N ILE A 3 -1.550 22.799 64.944 1.00 86.29 ATOM 18 CA ILE A 3 -1.550 22.799 64.944 1.00 86.29 ATOM 19 C ILE A 3 -2.006 25.154 65.661 1.00 75.68 ATOM 20 O ILE A 3 -2.835 25.288 64.763 1.00 76.97 ATOM 21 CB ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 22 CG1 ILE A 3 0.462 25.521 64.759 1.00 83.63 ATOM 23 CG2 ILE A 3 1.198 23.160 65.300 1.00 84.76 ATOM 24 CD1 ILE A 3 -0.184 25.361 63.375 1.00 91.36 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 27 C VAL A 4 -1.658 28.552 66.623 1.00 56.32 ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 47.84 ATOM 29 CB VAL A 4 -3.735 28.754 68.047 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.56 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 34 C ASP A 5 -1.403 30.782 65.763 1.00 39.38 ATOM 36 CB ASP A 5 -1.403 30.782 65.763 1.00 39.38 ATOM 37 CG ASP A 5 -1.403 30.782 64.400 1.00 38.30 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 39 OD2 ASP A 5 -0.251 32.581 64.563 1.00 29.81 ATOM 39 OD2 ASP A 5 -0.251 32.581 64.563 1.00 29.81 ATOM 39 OD2 ASP A 5 -0.251 32.581 64.563 1.00 29.81 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.08 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 44 CB THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 45 OG1 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.797 35.923 65.875 1.00 25.42	MOTA	13	CG	GLU	Α				63.125	1.00100.00
ATOM 16 OE2 GLU A 2 -5.361 20.398 61.368 1.00100.00 ATOM 17 N ILE A 3 -1.550 22.799 66.944 1.00 86.29 ATOM 18 CA ILE A 3 -1.148 23.905 65.820 1.00 81.53 ATOM 19 C ILE A 3 -2.006 25.154 65.661 1.00 75.68 ATOM 20 O ILE A 3 -2.835 25.288 64.763 1.00 76.97 ATOM 21 CB ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 22 CG1 ILE A 3 0.462 25.521 64.759 1.00 83.63 ATOM 23 CG2 ILE A 3 1.198 23.160 65.300 1.00 84.76 ATOM 24 CD1 ILE A 3 -0.184 25.361 66.3375 1.00 61.54 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -1.658 28.552 66.623 1.00 56.32 ATOM 27 C VAL A 4 -1.658 28.552 66.623 1.00 56.32 ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.40 ATOM 31 CG2 VAL A 4 -3.735 28.754 68.047 1.00 58.40 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 33 CA ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 32.64 ATOM 35 O ASP A 5 -2.308 31.596 66.634 1.00 32.32 ATOM 36 CB ASP A 5 -2.308 31.596 66.631 1.00 32.64 ATOM 37 CG ASP A 5 -0.251 32.811 63.493 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 39 OD2 ASP A 5 -0.251 32.581 63.493 1.00 29.96 ATOM 39 OD2 ASP A 5 -0.251 32.581 63.493 1.00 29.981 ATOM 40 N THR A 6 -2.710 32.597 69.132 1.00 46.68 ATOM 41 CA THR A 6 -2.710 32.507 69.132 1.00 32.32 ATOM 42 C THR A 6 -2.710 32.507 69.132 1.00 32.32 ATOM 44 CB THR A 6 -2.710 32.507 69.132 1.00 32.32 ATOM 45 OG1 THR A 6 -2.710 32.507 69.132 1.00 46.68 ATOM 46 CG2 THR A 6 -2.710 32.507 69.132 1.00 46.68 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.797 35.923 65.875 1.00 25.42	MOTA	14	CD	GLU	Α	2	-4.351	21.139	61.767	1.00100.00
ATOM 17 N ILE A 3 -1.550 22.799 64.944 1.00 86.29 ATOM 18 CA ILE A 3 -1.148 23.905 65.820 1.00 81.53 ATOM 20 C ILE A 3 -2.006 25.154 65.661 1.00 75.68 ATOM 20 O ILE A 3 -2.835 25.288 64.763 1.00 76.97 ATOM 21 CB ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 22 CG1 ILE A 3 0.452 25.521 66.759 1.00 83.63 ATOM 23 CG2 ILE A 3 1.198 23.160 65.300 1.00 84.76 ATOM 24 CD1 ILE A 3 -0.184 25.361 63.375 1.00 91.36 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 27 C VAL A 4 -1.658 28.552 66.623 1.00 50.98 ATOM 28 O VAL A 4 -3.514 27.318 67.595 1.00 50.98 ATOM 30 CG1 VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CG1 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 34 C ASP A 5 -2.314 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -0.069 33.123 65.633 1.00 35.01 ATOM 37 CG ASP A 5 -0.069 33.123 65.635 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.069 33.123 65.635 1.00 35.01 ATOM 39 OD2 ASP A 5 -0.059 33.123 65.635 1.00 35.01 ATOM 40 N THR A 6 -2.710 32.581 64.563 1.00 32.92 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 35.79 ATOM 43 C THR A 6 -2.710 32.507 68.842 1.00 35.79 ATOM 44 CB THR A 6 -2.357 32.171 70.295 1.00 40.63 ATOM 45 OG1 THR A 6 -2.357 32.2171 70.295 1.00 40.63 ATOM 46 CG2 THR A 6 -2.769 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -1.842 34.480 67.656 1.00 32.51	MOTA	15	OE1	GLU	A	2	-3.301	21.261	61.152	1.00100.00
ATOM 18 CA ILE A 3 -1.148 23.905 65.820 1.00 81.53 ATOM 19 C ILE A 3 -2.006 25.154 65.661 1.00 75.68 ATOM 20 O ILE A 3 -2.006 25.154 65.661 1.00 75.68 ATOM 21 CB ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 22 CGI ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 23 CG2 ILE A 3 1.198 23.160 65.300 1.00 84.76 ATOM 24 CDI ILE A 3 -0.164 25.361 63.375 1.00 91.36 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 27 C VAL A 4 -1.658 28.552 66.623 1.00 50.98 ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 47.84 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CGI VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 31 CG2 VAL A 4 -3.351 28.754 66.107 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 34 C ASP A 5 -2.012 29.486 65.763 1.00 32.64 ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 36 CB ASP A 5 -2.308 31.596 66.634 1.00 38.30 ATOM 36 CB ASP A 5 -2.308 31.596 66.634 1.00 38.30 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 36 CB ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 38.30 ATOM 38 ODI ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 37 CG ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 37 CG ASP A 5 -2.2612 32.581 66.171 1.00 38.30 ATOM 38 ODI ASP A 5 -2.308 31.596 66.634 1.00 32.64 ATOM 38 ODI ASP A 5 -2.308 31.596 66.634 1.00 32.64 ATOM 38 ODI ASP A 5 -2.308 31.596 66.634 1.00 32.64 ATOM 38 ODI ASP A 5 -0.261 32.581 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -2.701 32.581 66.791 1.00 39.38 ATOM 40 C THR A 6 -2.701 32.581 66.791 1.00 35.01 ATOM 40 CB THR A 6 -2.701 32.597 68.842 1.00 32.08 ATOM 40 CB THR A 6 -2.701 32.507 68.842 1.00 32.08 ATOM 40 CB THR A 6 -2.701 32.507 68.842 1.00 32.79 ATOM 44 CB THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 46	MOTA	16	OE2	GLU	A	2	-5.361	20.398	61.368	1.00100.00
ATOM	MOTA	17	N	ILE	Α	3	-1.550	22.799	64.944	1.00 86.29
ATOM 20 O ILE A 3 -2.835 25.288 64.763 1.00 76.97 ATOM 21 CB ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 22 CG1 ILE A 3 0.452 25.521 64.759 1.00 83.63 ATOM 23 CG2 ILE A 3 1.198 23.160 65.300 1.00 84.76 ATOM 24 CD1 ILE A 3 -0.184 25.361 63.375 1.00 91.36 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 50.98 ATOM 27 C VAL A 4 -1.658 28.552 66.23 1.00 61.54 ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 50.98 ATOM 30 CG1 VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 31 CG2 VAL A 4 -3.735 28.754 68.047 1.00 58.56 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 36 CB ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -0.251 32.581 64.563 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 39 OD2 ASP A 5 -0.251 32.581 64.563 1.00 39.38 ATOM 36 CB ASP A 5 -0.251 32.581 64.563 1.00 39.38 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 39.98 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 39.98 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.08 ATOM 40 N THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 45 OG1 THR A 6 -2.759 30.741 70.604 1.00 53.79 ATOM 46 CG2 THR A 6 -2.759 30.741 70.604 1.00 55.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -2.667 36.329 66.329 1.00 25.42	MOTA	18	CA	ILE	A	3	-1.148	23.905	65.820	1.00 81.53
ATOM 21 CB ILE A 3 0.308 24.324 65.707 1.00 83.45 ATOM 22 CG1 ILE A 3 0.452 25.521 64.759 1.00 83.63 ATOM 23 CG2 ILE A 3 1.198 23.160 65.300 1.00 84.76 ATOM 24 CD1 ILE A 3 -0.184 25.361 63.375 1.00 91.36 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 27 C VAL A 4 -0.803 28.694 67.512 1.00 47.84 ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 47.84 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.40 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.40 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -2.308 31.596 66.634 1.00 32.64 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 32.64 ATOM 36 CB ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 30.79 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.98 ATOM 40 N THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 44 CB THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 44 CB THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 45 OG1 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -2.627 36.329 66.229 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.229 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.229 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.229 1.00 31.49 ATOM 49 C CYS A 7 -2.780 37.523 67.635 1.00 25.42	MOTA	19	C	ILE	A	3	-2.006	25.154	65.661	1.00 75.68
ATOM 22 CG1 ILE A 3	ATOM	20	0	ILE	A	3	-2.835	25.288	64.763	1.00 76.97
ATOM 23 CG2 ILE A 3	MOTA	21	CB	ILE	A	3	0.308	24.324	65.707	1.00 83.45
ATOM 24 CD1 ILE A 3 -0.184 25.361 63.375 1.00 91.36 ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 27 C VAL A 4 -1.658 28.552 66.623 1.00 50.98 ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 47.84 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.40 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -0.251 32.581 64.563 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.069 33.123 65.635 1.00 35.01 ATOM 39 OD2 ASP A 5 -0.069 33.123 65.635 1.00 32.32 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 29.81 ATOM 40 N THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 43 O THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 OG1 THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 46 CG2 THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 35.79 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49	MOTA	22	CG1	ILE	A	3	0.452	25.521	64.759	1.00 83.63
ATOM 25 N VAL A 4 -1.725 26.099 66.523 1.00 61.54 ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 27 C VAL A 4 -1.658 28.552 66.623 1.00 50.98 ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 47.84 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.40 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -1.252 31.492 64.400 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 39 OD2 ASP A 5 -0.609 33.123 65.635 1.00 35.01 ATOM 39 OD2 ASP A 6 -2.710 32.581 63.493 1.00 29.81 ATOM 40 N THR A 6 -2.710 32.507 68.842 1.00 32.32 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 44 CB THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 CG1 THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -1.879 35.923 66.129 1.00 31.49	MOTA	23	CG2	ILE	A	3	1.198	23.160	65.300	1.00 84.76
ATOM 26 CA VAL A 4 -2.477 27.303 66.482 1.00 56.32 ATOM 27 C VAL A 4 -1.658 28.552 66.623 1.00 50.98 ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 47.84 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.40 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -1.252 31.492 64.400 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 39 OD2 ASP A 5 -0.457 32.831 63.493 1.00 29.81 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.32 ATOM 41 CA THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 42 C THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 44 CB THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 45 CG1 THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 CG1 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49	ATOM	24	CD1	ILE	A	3	-0.184	25.361	63.375	1.00 91.36
ATOM 27 C VAL A 4 -1.658 28.552 66.623 1.00 50.98 ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 47.84 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.40 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -1.252 31.492 64.400 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 39 OD2 ASP A 5 0.457 32.831 63.493 1.00 29.81 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.08 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 43 O THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 44 CB THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 44 CB THR A 6 -2.710 32.507 69.132 1.00 46.68 ATOM 44 CB THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 OG1 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 48 CA CYS A 7 -1.797 35.923 67.335 1.00 28.92 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49	ATOM	25	N	VAL	A	4	-1.725	26.099	66.523	1.00 61.54
ATOM 28 O VAL A 4 -0.803 28.694 67.512 1.00 47.84 ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99 ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.40 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 34 C ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 35 O ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 36 CB ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 37 CG ASP A 5 -1.252 31.492 64.400 1.00 30.79 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 39 OD2 ASP A 5 -0.697 33.123 65.635 1.00 35.01 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.32 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 43 O THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 OG1 THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 35.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 35.51 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49	ATOM	26	CA	VAL	A	4	-2.477	27.303	66.482	1.00 56.32
ATOM 29 CB VAL A 4 -3.514 27.318 67.595 1.00 58.99  ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.40  ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56  ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38  ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64  ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35  ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30  ATOM 36 CB ASP A 5 -1.252 31.492 64.400 1.00 30.79  ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96  ATOM 38 OD1 ASP A 5 -0.069 33.123 65.635 1.00 35.01  ATOM 39 OD2 ASP A 5 0.457 32.831 63.493 1.00 29.81  ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.32  ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08  ATOM 42 C THR A 6 -2.710 32.507 68.842 1.00 32.08  ATOM 43 O THR A 6 -2.701 34.011 68.557 1.00 40.63  ATOM 44 CB THR A 6 -2.3484 34.759 69.132 1.00 46.68  ATOM 45 OG1 THR A 6 -2.357 32.171 70.295 1.00 44.71  ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79  ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51  ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51  ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49  ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49  ATOM 49 C CYS A 7 -2.780 37.523 65.875 1.00 25.42	MOTA	27	C	VAL	A	4	-1.658	28.552	66.623	1.00 50.98
ATOM 30 CG1 VAL A 4 -3.735 28.754 68.047 1.00 58.40 ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -1.252 31.492 64.400 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.069 33.123 65.635 1.00 35.01 ATOM 39 OD2 ASP A 5 -0.457 32.831 63.493 1.00 29.81 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.32 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 43 O THR A 6 -3.484 34.759 69.132 1.00 46.68 ATOM 44 CB THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 OG1 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.797 35.923 67.335 1.00 28.92 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42	MOTA		0			4	-0.803	28.694	67.512	1.00 47.84
ATOM 31 CG2 VAL A 4 -4.819 26.691 67.131 1.00 58.56 ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -1.252 31.492 64.400 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.069 33.123 65.635 1.00 35.01 ATOM 39 OD2 ASP A 5 0.457 32.831 63.493 1.00 29.81 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.32 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 43 O THR A 6 -3.484 34.759 69.132 1.00 46.68 ATOM 44 CB THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 OG1 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42	ATOM	29	CB	VAL	A	4	-3.514	27.318	67.595	
ATOM 32 N ASP A 5 -2.012 29.486 65.732 1.00 39.38 ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -1.252 31.492 64.400 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.069 33.123 65.635 1.00 35.01 ATOM 39 OD2 ASP A 5 0.457 32.831 63.493 1.00 29.81 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.32 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 43 O THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 44 CB THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 OG1 THR A 6 -0.967 32.322 70.505 1.00 51.05 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42	MOTA	30	CG1	VAL	A	4	-3.735	28.754	68.047	1.00 58.40
ATOM 33 CA ASP A 5 -1.403 30.782 65.763 1.00 32.64 ATOM 34 C ASP A 5 -2.308 31.596 66.634 1.00 36.35 ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -1.252 31.492 64.400 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.069 33.123 65.635 1.00 35.01 ATOM 39 OD2 ASP A 5 0.457 32.831 63.493 1.00 29.81 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.32 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 43 O THR A 6 -3.484 34.759 69.132 1.00 46.68 ATOM 44 CB THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 OG1 THR A 6 -0.967 32.322 70.505 1.00 51.05 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42	MOTA		CG2					26.691		
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ATOM 35 O ASP A 5 -3.343 32.051 66.171 1.00 38.30 ATOM 36 CB ASP A 5 -1.252 31.492 64.400 1.00 30.79 ATOM 37 CG ASP A 5 -0.251 32.581 64.563 1.00 29.96 ATOM 38 OD1 ASP A 5 -0.069 33.123 65.635 1.00 35.01 ATOM 39 OD2 ASP A 5 0.457 32.831 63.493 1.00 29.81 ATOM 40 N THR A 6 -1.931 31.745 67.903 1.00 32.32 ATOM 41 CA THR A 6 -2.710 32.507 68.842 1.00 32.08 ATOM 42 C THR A 6 -2.701 34.011 68.557 1.00 40.63 ATOM 43 O THR A 6 -3.484 34.759 69.132 1.00 46.68 ATOM 44 CB THR A 6 -2.357 32.171 70.295 1.00 44.71 ATOM 45 OG1 THR A 6 -0.967 32.322 70.505 1.00 51.05 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42	MOTA	33	CA	ASP	A		-1.403	30.782	65.763	1.00 32.64
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ATOM 44 CB THR A 6 -2.357 32.171 70.295 1.00 44.71  ATOM 45 OG1 THR A 6 -0.967 32.322 70.505 1.00 51.05  ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79  ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51  ATOM 48 CA CYS A 7 -1.797 35.923 67.335 1.00 28.92  ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49  ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42	ATOM									
ATOM 45 OG1 THR A 6 -0.967 32.322 70.505 1.00 51.05 ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79 ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.797 35.923 67.335 1.00 28.92 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42	ATOM					6				
ATOM 46 CG2 THR A 6 -2.789 30.741 70.604 1.00 35.79  ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51  ATOM 48 CA CYS A 7 -1.797 35.923 67.335 1.00 28.92  ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49  ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42										
ATOM 47 N CYS A 7 -1.842 34.480 67.656 1.00 32.51 ATOM 48 CA CYS A 7 -1.797 35.923 67.335 1.00 28.92 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42										
ATOM 48 CA CYS A 7 -1.797 35.923 67.335 1.00 28.92 ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42										
ATOM 49 C CYS A 7 -2.627 36.329 66.129 1.00 31.49 ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42										
ATOM 50 O CYS A 7 -2.780 37.523 65.875 1.00 25.42										
ATOM 51 CB CYS A 7 -0.362 36.410 67.107 1.00 27.38										
	ATOM	51	CB	CYS	A	7	-0.362	36.410	67.107	1.00 27.38

ATOM	52	SG	CYS	Α	7	0.686	35.944	68.518	1.00 32.02
ATOM	53	N	SER	A	8	-3.140	35.315	65.383	1.00 34.03
ATOM	54	CA	SER		8	-3.940	35.508	64.158	1.00 32.97
ATOM	55	C	SER		8	-5.410	35.136	64.264	1.00 33.52
ATOM	56	ō	SER		8	-5.744	34.137	64.866	1.00 33.32
ATOM	57	CB	SER		8				
						-3.363	34.754	62.980	1.00 34.07
MOTA	58	OG	SER		8	-4.017	35.182	61.798	1.00 36.65
ATOM	59	N	LEU		9	-6.289	35.921	63.635	1.00 30.79
ATOM	60	CA	LEU		9	-7.724	35.649	63.672	1.00 31.91
ATOM	61	C	LEU		9	-8.198	35.009	62.377	1.00 36.07
MOTA	62	0	LEU		9	-9.359	34.626	62.216	1.00 38.61
ATOM	63	CB	LEU		9	-8.514	36.958	63.874	1.00 32.47
MOTA	64	CG	LEU		9	-8.306	37.688	65.212	1.00 35.39
MOTA	65	CD1	LEU	A	9	-9.113	38.983	65.193	1.00 32.27
MOTA	66	CD2	LEU	A	9	-8.746	36.816	66.397	1.00 33.25
ATOM	67	N	ALA	Α	10	-7.273	34.933	61.443	1.00 28.63
ATOM	68	CA	ALA	Α	10	-7.545	34.408	60.147	1.00 27.14
ATOM	69	С	ALA	A	10	-7.643	32.921	60.090	1.00 34.34
ATOM	70	0	ALA	А	10	-7.296	32.173	61.005	1.00 37.34
ATOM	71	CB	ALA		10	-6.551	34.936	59.100	1.00 27.72
ATOM	72	N	SER		11	-8.130	32.503	58.959	1.00 32.08
ATOM	73	CA	SER		11	-8.256	31.115	58.708	1.00 32.03
ATOM	74	C	SER		11	-6.838	30.519	58.656	1.00 32.67
ATOM	75	0	SER		11	-5.927	31.028	57.986	1.00 32.07
ATOM	76	CB	SER		11	-9.013	30.934	57.401	1.00 29.29
ATOM	77	OG	SER		11	-10.391		57.648	1.00 38.42
ATOM			PRO				30.728		
	78 70	N			12	-6.651 5.270	29.440	59.387	1.00 29.14
ATOM	79	CA	PRO		12	-5.370	28.786	59.476	1.00 26.83
ATOM	80	C	PRO		12	-4.935	28.176	58.173	1.00 32.64
MOTA	81	0	PRO		12	-5.737	28.007	57.284	1.00 35.89
ATOM	82	CB	PRO		12	-5.544	27.698	60.540	1.00 28.28
ATOM	83	CG	PRO		12	-7.029	27.571	60.843	1.00 32.92
ATOM	84	CD	PRO		12	-7.731	28.587	59.952	1.00 30.42
MOTA	85	N	ALA		13	-3.645	27.836	58.063	1.00 30.63
MOTA	86	CA	ALA		13	-3.066	27.236	56.855	1.00 28.36
ATOM	87	С	ALA		13	-3.644	25.852	56.576	1.00 33.99
MOTA	88	0	ALA	Α	13	-3.455	25.240	55.528	1.00 31.60
ATOM	89	CB	ALA		13	-1.561	27.133	57.050	1.00 27.68
MOTA	90	N	SER	A	14	-4.338	25.352	57.571	1.00 31.10
ATOM	91	CA	SER	A	14	-4.919	24.069	57.469	1.00 30.66
ATOM	92	C	SER	A	14	-6.242	24.133	56.753	1.00 37.86
ATOM	93	0	SER	Α	14	-6.768	23.118	56.328	1.00 45.79
ATOM	94	CB	SER	Α	14	-5.005	23.386	58.825	1.00 34.33
ATOM	95	OG	SER	Α	14	-6.006	23.978	59.621	1.00 41.01
MOTA	96	N	VAL	Α	15	-6.785	25.327	56.630	1.00 32.80
ATOM	97	CA	VAL		15	-8.036	25.529	55.917	1.00 31.81
MOTA	98	С	VAL	A	15	-7.777	26.107	54.507	1.00 34.70
ATOM	99	0	VAL		15	-8.241	25.576	53.494	1.00 31.96
ATOM	100	СВ	VAL		15	-9.033	26.336	56.720	1.00 33.07
ATOM	101		VAL		15	-10.272	26.638	55.861	1.00 33.31
ATOM	102		VAL		15	-9.412	25.538	57.949	1.00 30.32
ATOM	103	И	CYS		16	-6.990	27.183	54.453	1.00 33.85
ATOM	104	CA	CYS		16	-6.602	27.826	53.189	1.00 38.27
ATOM .	105	C	CYS		16	-5.206	28.388	53.265	1.00 37.14
ATOM	105	0	CYS		16	-4.616	28.534	54.322	1.00 37.14
									1.00 39.70
ATOM	107	CB	CYS		16	-7.589	28.870	52.581	
ATOM	108	SG	CYS		16	-7.844	30.418	53.540	1.00 47.38
ATOM	109	N	ARG		17	-4.679	28.722	52.132	1.00 32.10
ATOM	110	CA	ARG		17	-3.349	29.262	52.101	1.00 32.54
ATOM	111	C	ARG		17	-3.210	30.307	51.005	1.00 34.56
ATOM	112	0	ARG	A	17	-3.511	30.065	49.842	1.00 35.07

ATOM	113	СВ	ARG A	17	-2.371	28.152	51.758	1.00 36.83
ATOM	114	CG	ARG A		-1.779	27.391	52.915	1.00 40.61
ATOM	115	CD	ARG A		-1.472	25.970	52.503	1.00 27.18
ATOM	116	NE	ARG A		-1.963	25.026	53.501	1.00 52.41
	117	CZ	ARG A	-	-1.244	24.036	54.035	1.00 69.41
ATOM			ARG A		0.020		53.683	1.00 54.86
ATOM	118					23.812		1.00 49.68
ATOM	119		ARG A		-1.810	23.246	54.952	
ATOM	120	N	THR A		-2.711	31.454	51.378	1.00 27.06
MOTA	121	CA	THR A		-2.489	32.477	50.428	1.00 26.12
MOTA	122	С	THR A		-1.250	32.110	49.653	1.00 30.83
MOTA	123	0	THR A		-0.174	31.964	50.194	1.00 29.06
ATOM	124	CB	THR I		-2.276	33.810	51.134	1.00 34.27
MOTA	125	OG1	THR A	18	-3.481	34.261	51.738	1.00 32.95
ATOM	126	CG2	THR A	18	-1.730	34.839	50.156	1.00 35.91
ATOM	127	N	LYS P	19	-1.408	31.955	48.365	1.00 31.55
MOTA	128	CA	LYS I	19	-0.298	31.615	47.511	1.00 31.74
ATOM	129	C	LYS A	19	0.359	32.848	46.906	1.00 33.90
ATOM	130	0	LYS A	19	1.513	32.834	46.520	1.00 34.57
ATOM	131	CB	LYS F	19	-0.795	30.697	46.398	1.00 36.08
ATOM	132	CG	LYS A	19	-1.332	29.368	46.924	1.00 62.54
ATOM	133	CD	LYS F		-0.281	28.257	47.057	1.00 82.23
ATOM	134	CE	LYS A		0.093	27.880	48.496	1.00 77.50
ATOM	135	NZ	LYS A		1.553	27.849	48.745	1.00 55.63
ATOM	136	N	HIS A		-0.387	33.928	46.810	1.00 31.40
ATOM	137	CA	HIS F		0.160	35.122	46.198	1.00 29.22
ATOM	138	C	HIS F		-0.655	36.345	46.517	1.00 34.68
MOTA	139	0	HIS F		-1.833	36.239	46.846	1.00 35.34
	140	CB	HIS A		0.123	34.956	44.666	1.00 26.47
MOTA					0.123	36.022	43.970	1.00 26.77
ATOM	141	CG	HIS A				43.980	1.00 28.92
ATOM	142		HIS A		2.249	36.046		1.00 27.43
ATOM	143		HIS A		0.415	37.091	43.280	
ATOM	144		HIS A		2.622	37.126	43.301	
MOTA	145	NE2			1.536	37.781	42.865	1.00 28.18
MOTA	146	N	LEU A		0.000	37.492	46.390	1.00 30.14
ATOM	147	CA	LEU A		-0.596	38.782	46.610	1.00 31.02
MOTA	148	C	LEU A		-0.134	39.786	45.562	1.00 38.34
MOTA	149	0	LEU A		1.073	39.952	45.312	1.00 37.30
ATOM	150	CB	LEU A		-0.342	39.363	47.999	1.00 31.30
ATOM	151	CG	LEU A		-0.611	40.880	48.047	1.00 32.33
ATOM	152		LEU A		-2.088	41.192	48.324	1.00 27.10
MOTA	153	CD2	LEU A	21	0.277	41.522	49.100	1.00 32.86
MOTA	154	N	HIS A		-1.127	40.442	44.951	1.00 35.47
MOTA	155	CA	HIS A	22	-0.895	41.452	43.920	1.00 34.24
MOTA	156	C	HIS A	22	-1.249	42.742	44.550	1.00 33.99
MOTA	157	0	HIS A		-2.402	42.957	44.905	1.00 35.72
ATOM	158	CB	HIS P	22	-1.720	41.244	42.624	1.00 33.38
MOTA	159	CG	HIS I	22	-1.350	42.256	41.615	1.00 35.97
MOTA	160	ND1	HIS A	22	-0.030	42.576	41.384	1.00 38.81
ATOM	161	CD2	HIS A	22	-2.125	43.043	40.830	1.00 39.07
ATOM	162	CE1	HIS A	22	-0.019	43.534	40.462	1.00 38.66
MOTA	163	NE2	HIS A	22	-1.262	43.829	40.103	1.00 39.13
MOTA	164	N	LEU A		-0.235	43.539	44.757	1.00 30.17
ATOM	165	CA	LEU A		-0.416	44.793	45.405	1.00 33.32
ATOM	166	C	TEA Y		-0.203	45.949	44.440	1.00 44.46
ATOM	167	Ō	LEU A		0.828	46.068	43.761	1.00 44.06
ATOM	168	СВ	LEU A		0.446	44.882	46.680	1.00 33.72
MOTA	169	CG	LEU A			45.682	47.871	1.00 33.15
MOTA	170		LEU A		0.780	46.835	48.172	1.00 26.07
MOTA	171		LEU A		-1.539	46.213	47.609	1.00 35.39
ATOM	172	N	ARG A			46.765	44.395	1.00 42.83
	173	CA	ARG A		-1.406	47.964	43.596	1.00 41.79
ATOM	113	CA.	ALC I	. 44	-1.400	21.307		

ATOM	174	С	ARG	Α	24	-1.930	49.005	44.562	1.00 39.15
ATOM	175	0	ARG	Α	24	-3.025	48.859	45.107	1.00 39.85
MOTA	176	CB	ARG	Α	24	-2.458	47.716	42.504	1.00 46.35
ATOM	177	CG	ARG	Α	24	-2.054	46.750	41.382	1.00 50.50
ATOM	178	CD	ARG		24	-2.754	47.058	40.043	1.00 80.27
MOTA	179	NE	ARG		24	-4.200	46.798	40.062	1.00 95.12
ATOM	180	CZ	ARG		24	-5.152			
-							47.703	39.826	1.00100.00
ATOM	181		ARG		24	-4.863	48.973	39.483	1.00100.00
ATOM	182	NH2			24	-6.432	47.326	39.865	1.00100.00
ATOM	183	N	CYS		25	-1.164	50.028	44.844	1.00 32.39
MOTA	184	CA	CYS	A	25	-1.698	50.969	45.813	1.00 33.30
MOTA	185	С	CYS	Α	25	-1.061	52.325	45.724	1.00 34.82
ATOM	186	0	CYS	Α	25	-0.012	52.514	45.076	1.00 31.03
MOTA	187	CB	CYS	A	25	-1.503	50.440	47.257	1.00 34.67
ATOM	188	SG	CYS	Α	25	0.231	50.529	47.798	1.00 38.07
MOTA	189	N	SER		26	-1.711	53.257	46.418	1.00 34.39
ATOM	190	CA	SER		26	-1.196	54.601	46.437	1.00 36.77
ATOM	191	C	SER		26	-0.963	55.133	47.821	1.00 39.85
ATOM	192	o	SER		26	-1.738	54.853	48.757	1.00 37.56
MOTA	193	CB	SER		26	-1.889	55.600	45.530	1.00 42.70
MOTA	194	OG	SER		26	-0.899	56.330	44.824	1.00 61.74
ATOM	195	N	VAL		27	0.133	55.897	47.886	1.00 39.43
ATOM	196	CA	VAL		27	0.624	56.583	49.081	1.00 41.31
ATOM	197	C	VAL	A	27	0.209	58.043	49.082	1.00 44.32
MOTA	198	0	VAL	Α	27	0.562	58.799	48.187	1.00 45.24
MOTA	199	CB	VAL	Α	27	2.135	56.531	49.207	1.00 46.35
ATOM	200	CG1	VAL	Α	27	2.524	57.207	50.522	1.00 45.62
MOTA	201	CG2	LAV	A	27	2.592	55.079	49.178	1.00 47.20
ATOM	202	N	ASP	Α	28	-0.553	58.417	50.093	1.00 37.94
ATOM	203	CA	ASP		28	-1.040	59.764	50.237	1.00 35.28
ATOM	204	C	ASP		28	-0.595	60.366	51.538	1.00 33.85
ATOM	205	ō	ASP		28	-1.181	60.099	52.598	1.00 28.52
ATOM	206	CB	ASP		28	-2.559	59.807	50.189	1.00 37.09
ATOM	207	CG	ASP		28	-3.055	61.205	50.105	1.00 57.03
ATOM	208		ASP		28	-2.611	62.119	50.767	1.00 59.17
			ASP		28			49.192	
ATOM	209					-3.993	61.335		1.00 61.41
ATOM	210	N	PHE		29	0.436	61.174	51.405	1.00 36.42
ATOM	211	CA	PHB		29	1.044	61.888	52.512	1.00 43.07
ATOM	212	C	PHE		29	0.105	62.928	53.077	1.00 51.14
MOTA	213	0	PHE		29	0.161	63.279	54.257	1.00 51.35
ATOM	214	CB	PHE		29	2.410	62.517	52.143	1.00 47.77
ATOM	215	CG	PHE	А	29	3.519	61.485	52.079	1.00 50.86
ATOM	216	CD1	PHE	Α	29	4.066	60.957	53.247	1.00 52.08
ATOM	217	CD2	PHE	Α	29	3.996	61.001	50.863	1.00 53.94
MOTA	218	CE1	PHE	Α	29	5.075	59.995	53.215	1.00 52.83
ATOM	219	CE2	PHE	A	29	5.013	60.046	50.813	1.00 56.46
ATOM	220	CZ	PHE	A	29	5.559	59.538	51.992	1.00 53.39
ATOM	221	N	THR	Α	30	-0.766	63.420	52.220	1.00 47.10
MOTA	222	CA	THR	А	30	-1.718	64.386	52.654	1.00 45.48
ATOM	223	С	THR		30	-2.788	63.715		1.00 48.41
ATOM	224	Ō	THR		30	-3.045	64.082	54.649	1.00 48.64
MOTA	225	CB	THR		30	-2.283	65.097	51.434	1.00 54.06
ATOM	226		THR		30	-1.428	66.186	51.107	1.00 50.68
			THR		30	-3.697	65.568	51.745	1.00 50.88
ATOM	227								
ATOM	228	N	ARG		31	-3.392	62.683	52.978	1.00 46.66
ATOM	229	CA	ARG		31	-4.404	61.987	53.734	1.00 47.88
MOTA	230	C	ARG		31	-3.826	60.999	54.750	1.00 45.46
ATOM	231	0	ARG		31	-4.590	60.468	55.551	1.00 41.52
MOTA	232	CB	ARG		31	-5.335	61.214	52.805	1.00 56.73
ATOM	233	CG	ARG		31	-5.950	62.065	51.700	1.00 84.16
MOTA	234	CD	ARG	A	31	-7.338	61.568	51.284	1.00100.00

						5 544	60 450		3 00100 00
ATOM	235	NB	ARG		31	-7.344	60.450	50.327	1.00100.00
MOTA	236	CZ	ARG	Α	31	-8.148	60.371	49.251	1.00100.00
ATOM	237	NH1	ARG	A	31	-9.034	61.324	48.944	1.00100.00
ATOM	238	NH2	ARG	Δ	31	-8.062	59.298	48.460	1.00100.00
ATOM	239	N	ARG		32	-2.489	60.752	54.683	1.00 39.71
ATOM	240	CA	ARG		32	-1.751	59.798	55.531	1.00 39.09
ATOM	241	C	ARG	Α	32	-2.324	58.411	55.379	1.00 39.62
ATOM	242	0	ARG		32	-2.495	57.655	56.337	1.00 33.10
			ARG		32	-1.523	60.115	57.022	1.00 37.14
MOTA	243	CB							
MOTA	244	CG	ARG		32	-1.197	61.569	57.337	1.00 71.25
MOTA	245	CD	ARG	Α	32	0.277	61.834	57.686	1.00100.00
ATOM	246	NE	ARG	A	32	0.703	61.299	58.986	1.00100.00
MOTA	247	CZ	ARG	Δ	32	1.284	62.005	59.961	1.00 79.51
			ARG		32	1.522	63.308	59.831	1.00 55.73
ATOM	248								
MOTA	249	NH2	ARG		32	1.626	61.387	61.098	1.00 44.96
MOTA	250	N	THR	A	33	-2.612	58.068	54.139	1.00 39.83
MOTA	251	CA	THR	Α	33	-3.162	56.752	53.902	1.00 39.31
MOTA	252	С	THR	A	33	-2.543	56.010	52.760	1.00 41.13
	253	ō	THR		33	-1.853	56.574	51.926	1.00 42.93
MOTA									
MOTA	254	CB	THR		33	-4.635	56.835	53.641	1.00 43.44
MOTA	255	OG1	THR	Α	33	-4.798	57.636	52.468	1.00 40.17
MOTA	256	CG2	THR	A	33	-5.245	57.468	54.880	1.00 38.71
ATOM	257	N	LEU	А	34	-2.822	54.717	52.762	1.00 35.26
ATOM	258	CA	LEU		34	-2.372	53.799	51.745	1.00 35.20
MOTA	259	С	LEU		34	-3.632	53.293	51.098	1.00 32.49
MOTA	260	0	LEU	A	34	-4.474	52.670	51.751	1.00 30.96
MOTA	261	CB	LEU	A	34	-1.522	52.651	52.322	1.00 37.07
MOTA	262	CG	LEU	Α	34	-0.149	52.571	51.685	1.00 42.99
MOTA	263	CD1	LEU	Α	34	0.648	51.425	52.285	1.00 40.58
ATOM	264		LEU		34	-0.360	52.302	50.208	1.00 50.83
							53.632	49.838	1.00 28.72
ATOM	265	N	THR		35	-3.800			
MOTA	266	CA	THR		35	-5.017	53.228	49.198	1.00 31.26
MOTA	267	C	THR	A	35	-4.838	52.329	48.013	1.00 36.54
MOTA	268	0	THR	Α	35	-3.940	52.546	47.187	1.00 34,70
ATOM	269	CB	THR	Α	35	-5.877	54.427	48.813	1.00 44.88
MOTA	270	OG1	THR	A	35	-5.484	55.549	49.579	1.00 58.59
ATOM	271	CG2	THR		35	-7.324	54.094	49.109	1.00 49.42
		N	GLY		36	-5.726	51.329	47.950	1.00 32.57
ATOM	272								
ATOM	273	CA	GLY		36	-5.696	50.405	46.837	1.00 33.89
MOTA	274	С	GLY	Α	36	-6.418	49.074	46.993	1.00 34.50
ATOM	275	0	GLY	Α	36	-7.441	48.919	47.678	1.00 31.78
MOTA	276	N	THR	Α	37	-5.836	48.103	46.293	1.00 35.93
ATOM	277	CA	THR		37	-6.327	46.723	46.281	1.00 36.12
ATOM	278	C	THR		37	-5.268	45.696	46.473	1.00 35.67
							45.795	45.964	
MOTA	279	0	THR		37	-4.155			
ATOM	280	CB	THR		37	-7.119	46.306	45.050	1.00 42.21
ATOM	281	OG1	THR	Α	37	-6.507	46.804	43.870	1.00 30.98
MOTA	282	CG2	THR	A	37	-8.547	46.793	45.229	1.00 50.03
MOTA	283	N	ALA	A	38	-5.687	44.705	47.220	1.00 32.95
ATOM	284	CA	ALA		38	-4.886	43.570	47.533	1.00 33.45
		C	ALA			-5.481	42.374	46.824	1.00 35.47
MOTA	285				38				
MOTA	286	0	ALA		38	-6.580	41.906	47.151	1.00 32.91
MOTA	287	CB	ALA		38	-4.845	43.341	49.044	1.00 33.72
ATOM	288	N	ALA	Α	39	-4.764	41.874	45.834	1.00 32.70
ATOM	289	CA	ALA	Α	39	-5.274	40.702	45.140	1.00 31.59
ATOM	290	C	ALA		39	-4.692	39.464	45.770	1.00 32.11
			ALA			-3.514	39.147	45.608	1.00 32.46
ATOM	291	0			39				1.00 32.40
ATOM	292	CB	ALA		39	-4.934	40.729	43.662	
ATOM	293	N	LEU		40	-5.505	38.774	46.508	1.00 27.06
MOTA	294	CA	LEU	Α	40	-5.001	37.593	47.155	1.00 29.04
ATOM	295	C	LEU	Α	40	-5.331	36.322	46.364	1.00 36.88

MOTA	296	0	LEU A	40	-6.485	36.100	45.963	1.00 28.89
MOTA	297	CB	LEU A	40	-5.587	37.451	48.600	1.00 29.39
MOTA	298	CG	LEU A	40	-5.303	38.598	49.559	1.00 31.39
MOTA	299		LEU A		-5.435	38.063	50.970	1.00 32.62
MOTA	300	CD2	LEU A		-3.879	39.019	49.355	1.00 31.60
MOTA	301	N	THR A	41	-4.310	35.470	46.165	1.00 42.40
MOTA	302	CA	THR A	41	-4.523	34.210	45.488	1.00 43.93
MOTA	303	C	THR A	41	-4.548	33.155	46.552	1.00 43.75
MOTA	304	0	THR A	41	-3.510	32.827	47.115	1.00 45.22
MOTA	305	CB	THR A	41	-3.511	33.892	44.402	1.00 55.44
MOTA	306	OG1	THR A	41	-3.604	34.885	43.418	1.00 55.57
MOTA	307	CG2	THR A	41	-3.872	32.544	43.802	1.00 47.78
MOTA	308	N	VAL A	42	-5.755	32.688	46.848	1.00 33.25
MOTA	309	CA	VAL A		-5.946	31.720	47.893	1.00 32.21
MOTA	310	С	VAL A	42	-6.166	30.312	47.380	1.00 40.56
MOTA	311	0	VAL A	42	-6.827	30.105	46.376	1.00 42.56
MOTA	312	CB	VAL A		-7.017	32.153	48.920	1.00 36.45
MOTA	313	CG1	VAL A		-6.817	31.451	50.266	1.00 36.89
MOTA	314	CG2	VAL A		-6.963	33.665	49.170	1.00 36.10
MOTA	315	N	GLN A		-5.590	29.357	48.117	1.00 35.91
ATOM	316	CA	GLN A		-5.678	27.945	47.838	1.00 31.59
ATOM	317	C	GLN A		-6.346	27.244	48.988	1.00 38.98
MOTA	318	0	GLN A		-5.916	27.317	50.144	1.00 40.92
ATOM	319	CB	GLN A		-4.305	27.319	47.568	1.00 30.50
MOTA	320	CG	GLN A		-4.362	25.800	47.259	1.00 53.80
ATOM	321	CD	GLN A		-2.986	25.177	47.099	1.00 62.47
MOTA	322	OE1			-2.569	24.842	45.978	1.00 57.34
ATOM	323	NE2	GLN A		-2.274	25.037	48.224	1.00 43.72
MOTA	324	N	SER A		-7.423	26.555	48.664	1.00 33.83
ATOM	325	CA	SER A		-8.166	25.839	49.678	1.00 31.38
MOTA	326	C	SER A		-7.495	24.557	50.117	1.00 42.10
MOTA	327	0	SER A		-6.955 -9.576	23.814 25.530	49.292 49.226	1.00 42.78 1.00 28.60
MOTA	328	CB OG	SER A		~10.234	24.785	50.224	1.00 28.00
MOTA MOTA	329 330	Ŋ	GLN A		-7.579	24.785	51.423	1.00 34.37
ATOM	331	CA	GLN A		-7.007	23.082	51.994	1.00 37.05
MOTA	332	C	GLN A		-8.082	22.050	52.269	1.00 47.57
ATOM	333	ō	GLN A		-7.801	20.917	52.678	1.00 42.94
ATOM	334	СВ	GLN A		-6.247	23.411	53.280	1.00 36.10
ATOM	335	CG	GLN A		-5.246	24.539	53.034	1.00 54.73
ATOM	336	CD	GLN A		-4.323	24.206	51.888	1.00 45.43
ATOM	337	OE1	GLN A	45	-4.257	24.888	50.833	1.00 39.23
ATOM	338	NE2	GLN A	45	-3.621	23.121	52.092	1.00 29.80
ATOM	339	N	GLU A	46	-9.330	22.459	52.048	1.00 50.54
ATOM	340	CA	GLU A	46	-10.454	21.573	52.283	1.00 50.99
ATOM	341	C	GLU A	46	-11.496	21.583	51.179	1.00 54.49
MOTA	342	0	GLU A		-11.518	22.406	50.261	1.00 54.00
MOTA	343	CB	GLU A		-11.139	21.793	53.657	1.00 51.61
ATOM	344	CG	GLU A		-10.581	22.979	54.454	1.00 55.93
MOTA	345	CD	GLU A		-11.427	23.329	55.646	1.00 78.67
ATOM	346		GLU A		-12.563	23.765	55.543	1.00 69.56
ATOM	347		GLU A		-10.814	23.129	56.796	1.00 75.10
ATOM	348	N	ASP A		-12.387	20.630	51.300	1.00 48.90
ATOM	349	CA	ASP A		-13.450	20.549	50.362	1.00 49.03
ATOM	350	C	ASP A		-14.591	21.425	50.846	1.00 55.15
MOTA	351	0	ASP A		-14.760	21.631	52.044	1.00 56.66
ATOM	352	CB	ASP A		-13.913	19.099	50.227	1.00 50.20
ATOM	353	CG	ASP A		-13.083	18.376	49.218	1.00 66.88
MOTA	354		ASP A		-12.340	18.945	48.434	1.00 66.27
ATOM	355		ASP A		-13.235	17.081	49.284 49.929	1.00 76.37 1.00 50.25
ATOM	356	N	ASN A	48	-15.391	21.941	23.343	1.00 50.25

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ATOM	357	CA	ASN	Α	48	-16.519	22.755	50.339	1.00	48.45
ATOM	358	С	asn	Α	48	-16.115	24.000	51.115	1.00	43.07
ATOM	359	0	ASN	A	48	-16.699	24.351	52.138	1.00	39.78
ATOM	360	CB	asn	Α	48	-17.559	21.909	51.117	1.00	51.19
ATOM	361	CG	asn	A	48	-18.985	22.417	51.005	1.00	76.39
ATOM	362	OD1	asn	Α	48	-19.594	22.348	49.929	1.00	85.15
MOTA	363	ND2	ASN	A	48	-19.515	22.928	52.115	1.00	68.29
MOTA	364	N	LEU	A	49	-15.113	24.688	50.628	1.00	35.36
ATOM	365	CA	LEU	A	49	-14.728	25.874	51.335	1.00	34.40
ATOM	366	С	LEU	A	49	-15.601	27.009	50.851	1.00	47.38
ATOM	367	0	<b>LEU</b>	A	49	-15.421	27.515	49.734	1.00	45.47
ATOM	368	CB	LEU	A	49	-13.239	26.152	51.173	1.00	31.04
MOTA	369	CG	LEU	A	49	-12.781	27.394	51.885	1.00	29.82
ATOM	370	CD1	LEU	A	49	-12.725	27.137	53.385	1.00	28.15
ATOM	371	CD2	LEU	A	49	-11.394	27.753	51.368	1.00	30.24
ATOM	372	N	ARG	Α	50	-16.568	27.363	51.699	1.00	50.49
MOTA	373	CA	ARG	A	50	-17.560	28.392	51.401	1.00	52.83
MOTA	374	С	ARG	Α	50	-17.169	29.838	51.702	1.00	55.57

ATOM	375	0	ARG	Α	50	-17.627	30.760	51.011	1.00 53.89
ATOM	376	CB	ARG		50	-18.928	28.028	51.986	1.00 58.35
ATOM	377	CG	ARG		50	-19.863	27.354	50.980	1.00 74.76
MOTA	378	CD	ARG		50	-20.438	26.024	51.462	1.00 81.60
MOTA	379	NE	ARG		50	-21.214	25.355	50.415	1.00 94.37
ATOM	380	CZ	ARG		50	-22.465	24.888	50.538	1.00100.00
MOTA	381		ARG		50	-23.151	24.990	51.687	1.00100.00
ATOM	382	NH2			50	-23.046	24.297		
MOTA	383		SER					49.471	1.00 74.34
		N			51	-16.331	30.006	52.743	1.00 54.71
ATOM	384	CA	SER		51	-15.823	31.297	53.224	1.00 53.49
ATOM	385	C	SER		51	-14.495	31.156	53.955	1.00 53.57
ATOM	386	0	SER		51	-14.146	30.062	54.420	1.00 52.93
MOTA	387	CB	SER		51	-16.788	31.900	54.232	1.00 54.03
MOTA	388	OG	SER		51	-16.871	31.048	55.373	1.00 45.15
MOTA	389	N	LEU		52	-13.796	32.298	54.067	1.00 47.19
MOTA	390	CA	LEU		52	-12.519	32.422	54.762	1.00 45.66
ATOM	391	C	LEU	A	52	-12.415	33.671	55.640	1.00 50.43
ATOM	392	0	LEU	А	52	-13.145	34.633	55.471	1.00 52.64
MOTA	393	CB	<b>LEU</b>	A	52	-11.235	32.117	53.923	1.00 44.20
ATOM	394	CG	LEU		52	-10.896	33.044	52.745	1.00 43.98
ATOM	395	CD1	LEU	A	52	-11.739	32.687	51.554	1.00 42.82
ATOM	396	CD2	LEU	A	52	-11.128	34.501	53.094	1.00 44.71
ATOM	397	N	VAL	A	53	-11.483	33.658	56.579	1.00 44.97
ATOM	398	CA	VAL	A	53	-11.271	34.781	57.455	1.00 41.69
ATOM	399	C	VAL		53	-9.859	35.309	57.339	1.00 44.25
ATOM	400	0	VAL		53	-8.866	34.551	57.302	1.00 45.42
ATOM	401	CB	VAL		53	-11.565	34.420	58.906	1.00 45.48
ATOM	402	CG1			53	-11.223	35.554	59.853	1.00 44.94
ATOM	403	CG2	VAL		53	-13.030	34.073	59.050	1.00 45.79
ATOM	404	N	LEU		54	-9.796	36.627	57.166	1.00 35.12
MOTA	405	CA	LEU		54	-8.555	37.333	57.080	1.00 33.12
ATOM	406	C	LEU		54	-8.377	38.207	58.326	1.00 38.92
ATOM	407	0	LEU		54	-9.281	38.457	59.108	1.00 37.45
MOTA	408	CB	LEU		54	-8.461	38.216	55.831	1.00 34.73
ATOM	409	CG	LEU		54	-8.539	37.469	54.510	1.00 40.25
ATOM	410		LEU		54	-8.416	38.488	53.374	1.00 40.69
ATOM	411		LEU		54	-7.424	36.428	54.415	1.00 39.64
MOTA	412	N	ASP		5 <del>1</del>		38.674	58.524	
	413	CA	ASP		55	-7.192	39.526		1.00 35.02 1.00 31.65
MOTA			ASP			-6.918		59.627	
ATOM	414	C			55	-6.956	40.941	59.078	1.00 40.38
ATOM	415	0	ASP		55	-6.754	41.151	57.886	1.00 39.98
ATOM	416	CB	ASP		55	-5.494	39.232	60.075	1.00 30.92
MOTA	417	CG	ASP		55	-5.397	38.103	61.037	1.00 35.96
ATOM	418		ASP		55	-6.049	38.074	62.066	1.00 38.49
ATOM	419		ASP		55	-4.491	37.205	60.682	
ATOM	420	N	THR		56		41.900	59.963	1.00 42.93
MOTA	421	CA	THR		56	-7.243	43.334	59.661	1.00 41.75
ATOM	422	C	THR		56		44.128	60.967	1.00 37.46
MOTA	423	0	THR		56		43.687	62.049	1.00 36.98
MOTA	424	CB.	THR		56		43.825	58.894	1.00 37.17
ATOM	425		THR		56	-9.587	43.957	59.805	1.00 31.84
MOTA	426	CG2	THR		56	-8.910	42.943	57.714	1.00 33.58
ATOM	427	N	LYS	A	57	-6.513	45.304	60.863	1.00 26.63
MOTA	428	CA	LYS	A	57	-6.363	46.134	62.020	1.00 25.64
MOTA	429	С	LYS		57	-6.585	47.539	61.547	1.00 30.08
MOTA	430	0	LYS	A	57	-5.854	48.012	60.711	1.00 25.68
ATOM	431	CB	LYS	Α	57	-4.991	45.983	62.641	1.00 27.34
MOTA	432	CG	LYS	A	57	-4.907	46.387	64.100	1.00 35.83
ATOM	433	CD	LYS	Α	57	-3.514	46.904	64.471	1.00 35.57
MOTA	434	CE	LYS	A	57	-2.901	46.225	65.689	1.00 50.54
ATOM	435	NZ	LYS		57	-2.521	47.180	66.757	1.00 55.43

ATOM	436	N	ASP F	¥ 58	-7.617	48.188	62.065	1.00 32.68
ATOM	437	CA	ASP F	58	-7.895	49.545	61.665	1.00 35.27
ATOM	438	Ċ	ASP I		-7.894	49.710	60.149	1.00 38.24
ATOM	439	0	ASP F		-7.289	50.627	59.571	1.00 35.86
ATOM	440	CB	ASP A		-6.968	50.550	62.386	1.00 37.22
ATOM	441	CG	ASP F		-7.041	50.393	63.880	1.00 50.71
ATOM	442		ASP A		-8.073	50.136	64.478	1.00 57.20
	443	-	ASP F		-5.878	50.562	64.463	1.00 45.82
MOTA			LEU A		~8.604	48.796	59.516	1.00 43.62
ATOM	444	N	LEU A				58.079	1.00 37.88
ATOM	445	CA	LEU A		-8.720	48.813		
MOTA	446	C			-10.077	49.243	57.555	1.00 45.51
ATOM	447	0	LEU A		-11.146	48.946	58.120	1.00 44.18
ATOM	448	CB	LEU A		-8.265	47.506	57.422	1.00 38.42
MOTA	449	CG	LEU F		-6.762	47.475	57.218	1.00 37.40
ATOM	450		LEU A		-6.392	46.173	56.526	1.00 36.39
ATOM	451	CD2	LEU A		-6.321	48.655	56.361	1.00 36.57
ATOM	452	N	THR A	60	-9.984	49.949	56.437	1.00 42.59
MOTA	453	CA	THR A	60	-11.132	50.483	55.734	1.00 42.63
MOTA	454	C	THR A	60	-11.357	49.705	54.463	1.00 38.18
MOTA	455	0	THR A	60	-10.632	49.856	53.454	1.00 34.33
MOTA	456	CB	THR A	60	-11.030	52.028	55.532	1.00 65.15
ATOM	457	OG1	THR A	60	-11.806	52.736	56.504	1.00 67.56
MOTA	458	CG2	THR A	60	-11.345	52.480	54.104	1.00 56.89
ATOM	459	N	ILE A	61	-12.360	48.847	54.571	1.00 33.39
ATOM	460	CA	ILE A	61	-12.753	47.975	53.482	1.00 35.89
ATOM	461	C	ILE A		-13.726	48.634	52.533	1.00 41.05
ATOM	462	0	ILE A		-14.913	48.706	52.840	1.00 40.08
ATOM	463	CB	ILE A		-13.403	46.670	53.944	1.00 39.71
ATOM	464	CG1	ILE A		-12.482	45.826	54.832	1.00 39.90
ATOM	465	CG2	ILE A		-13.788	45.900	52.691	1.00 38.96
ATOM	466		ILE A		-11.027	45.851	54.358	1.00 49.61
ATOM	467	N	GLU A		-13.219	49.080	51.391	1.00 40.23
ATOM	468	CA	GLU A		-14.040	49.700	50.365	1.00 41.73
ATOM	469	C	GLU A		-14.986	48.633	49.826	1.00 47.09
MOTA	470	0	GLU F		-16.207	48.726	49.926	1.00 47.52
ATOM	471	CB	GLU A		-13.138	50.272	49.239	1.00 44.08
ATOM	472	CG	GLU A		-13.765	51.406	48.381	1.00 64.08
ATOM	473	CD	GLU A		-14.686	50.946	47.256	1.00100.00
	474		GLU A		-15.458	50.002	47.376	1.00100.00
ATOM	475	OE2	GLU A		-14.591	51.670	46.146	1.00100.00
ATOM		N	LYS A		-14.399	47.580	49.267	1.00 43.46
ATOM	476	CA	LYS A			46.474	48.746	1.00 40.53
ATOM	477	CA	LYS F		-15.168 -14.250	45.307	48.489	1.00 45.38
ATOM	478	0	LYS A			45.500	48.362	1.00 43.50
ATOM	479 480				-13.046		47.428	1.00 40.46
ATOM		CB	LYS F		~15.818 ~14.789	46.830 46.959	46.321	1.00 20.53
ATOM	481	CG	LYS A				45.054	1.00 28.36
MOTA	482	CD	LYS A		-15.367	47.555		
ATOM	483	CE	LYS A		-14.315	48.158	44.139	1.00 40.61
MOTA	484	NZ	LYS A		-14.588	47.938	42.711	1.00 54.71
ATOM	485	N	VAL I		-14.862	44.116	48.441	1.00 45.57
MOTA	486	CA	VAL A		-14.190	42.844	48.171	1.00 44.90
MOTA	487	С	VAL A		-14.666	42.263	46.841	1.00 46.44
ATOM	488	0	VAL A		-15.826	41.917	46.700	1.00 45.81
MOTA	489	CB	VAL A		-14.505	41.748	49.192	1.00 46.24
MOTA	490		VAL A		-13.864	40.471	48.669	1.00 44.81
MOTA	491		VAL A		-14.040	42.048	50.627	1.00 44.77
ATOM	492	N	VAL A		-13.793	42.099	45.875	1.00 43.10
MOTA	493	CA	VAL A		-14.240	41.537	44.604	1.00 41.42
ATOM	494	С	VAL A		-13.707	40.156	44.282	1.00 42.13
ATOM	495	0	VAL A		-12.605	39.787	44.660	1.00 42.64
MOTA	496	CB	VAL A	4 65	-13.856	42.462	43.484	1.00 44.58

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ATOM	497		VAL		65	-14.520	42.037	42.189	1.00 42.79
MOTA	498	CG2	LAV	Α	65	-14.264	43.874	43.883	1.00 45.05
ATOM	499	N	ILE	λ	66	-14.515	39.402	43.556	1.00 38.68
ATOM	500	CA	ILE	Α	66	-14.179	38.053	43.113	1.00 39.98
ATOM	501	C	ILE	Α	66	-14.899	37.774	41.802	1.00 44.86
ATOM	502	0	ILE	Δ	66	-16.136	37.735	41.729	1.00 42.69
MOTA	503	CB	ILE	А	66	-14.520	36.947	44.113	1.00 44.28
ATOM	504	CG1	ILE	Α	66	-13.813	37.127	45.445	1.00 47.27
ATOM	505	CG2	ILE	20.	66	-14.141	35.578	43.550	1.00 42.84
MOTA	506	CD1	ILE	А	66	-14.352	36.169	46.514	1.00 38.79
MOTA	507	N	ASN	Α	67	-14.120	37.549	40.759	1.00 42.94
ATOM	508	CA	ASN		67	-14.715	37.266	39.472	1.00 44.24
ATOM	509	C	asn		67	-15.541	38.444	39.008	1.00 54.25
ATOM	510	0	ASN	Α	67	-16.743	38.344	38.768	1.00 57.56
ATOM	511	CB	ASN	Δ	67	-15.595	36.007	39.507	1.00 40.72
ATOM	512	CG	asn		67	-14.788	34.759	39.745	1.00 57.39
ATOM	513	OD1	asn	Α	67	-13.581	34.711	39.454	1.00 52.63
ATOM	514	ND2	ASN	Α	67	-15.446	33.760	40.317	1.00 44.54
MOTA	515	N	GLY		68	-14.876	39.574	38.899	
									1.00 50.43
ATOM	516	CA	GLY	Α	68	-15.517	40.796	38.462	1.00 48.89
ATOM	517	С	GLY	Α	68	-16.807	41.115	39.194	1.00 48.77
ATOM	518	0	GLY		68	-17.523	42.018	38.803	1.00 51.39
ATOM	519	N	GLN		69	-17.129	40.385	40.244	1.00 40.06
ATOM	520	CA	GLN	Α	69	-18.348	40.716	40.928	1.00 40.02
ATOM	521	C	GLN	Δ	69	-18.031	41.059	42.364	1.00 50.45
MOTA	522	0	GLN		69	-16.943	40.748	42.855	1.00 50.53
ATOM	523	CB	GLN	A	69	-19.415	39.602	40.829	1.00 40.78
ATOM	524	CG	GLN	A	69	-19.966	39.367	39.414	1.00 23.77
ATOM	525	CD	GLN		69	-20.513	40.646	38.831	1.00 56.53
MOTA	526	OE1	GLN		69	-19.974	41.198	37.859	1.00 55.28
ATOM	527	NE2	GLN	Α	69	-21.588	41.134	39.437	1.00 62.26
ATOM	528	N	GLU	Α	70	-18.975	41.718	43.028	1.00 49.43
ATOM	529	CA	GLU		70	-18.766	42.094	44.407	1.00 50.67
ATOM	530	C	GLU	A	70	-19.296	40.996	45.288	1.00 57.90
ATOM	531	0	GLU	Α	70	-20.272	40.367	44.909	1.00 63.90
ATOM	532	CB	GLU	Α	70	-19.449	43.434	44.732	1.00 52.26
ATOM	533	CG	GLU		70	-18.824	44.624	43.970	1.00 64.80
ATOM	534	CD	GLU		70	-19.181	45.967	44.555	1.00 91.82
ATOM	535	OE1	GLU	Α	70	-19.749	46.108	45.629	1.00100.00
ATOM	536	OE2	GLU	Α	70	-18.814	46.963	43.785	1.00 76.01
ATOM	537	N	VAL		71	-18.655	40.742	46.433	1.00 47.28
MOTA	538	CA	VAL		71	-19.119	39.685	47.335	1.00 43.84
MOTA	539	C	JAV	Α	71	-19.434	40.153	48.768	1.00 41.62
ATOM	540	0	VAL	Α	71	-18.983	41.206	49.254	1.00 35.70
ATOM	541	CB	VAL		71	-18.308	38.361	47.273	
MOTA	542	CG1	VAL	A	71	-18.062	37.923	45.827	1.00 45.19
MOTA	543	CG2	VAL	A	71	-16.979	38.460	48.017	1.00 45.24
ATOM	544	N	LYS		72	-20.239	39.343	49.431	1.00 39.34
MOTA	545	CA	LYS		72	-20.610	39.594	50.792	1.00 42.40
MOTA	546	C	LYS	A	72	-19.347	39.466	51.668	1.00 56.92
ATOM	547	0	LYS	A	72	-18.399	38.729	51.334	1.00 59.27
ATOM	548	CB	LYS		72	-21.719	38.629	51.211	1.00 45.76
MOTA	549	CG	LYS		72	-22.378	38.960	52.557	1.00 86.98
ATOM	550	CD	LYS	Α	72	-23.898	38.767	52.606	1.00100.00
ATOM	551	CE	LYS		72	-24.656	40.012	53.077	1.00100.00
MOTA	552	NZ	LYS		72	-26.011	39.730	53.592	1.00100.00
MOTA	553	N	TYR		73	-19.332	40.210	52.780	1.00 55.45
MOTA	554	CA	TYR	A	73	-18.236	40.226	53.747	1.00 53.31
ATOM	555	C	TYR		73	-18.636	40.884	55.068	1.00 50.87
MOTA	556	0	TYR		73	-19.552	41.703	55.139	1.00 47.82
ATOM	557	CB	TYR	Α	73	-16.891	40.741	53.214	1.00 52.73

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ATOM	558	CG	TYR		73	-16.765	42.244	53.227	1.00 51.76
ATOM	559	CD1	TYR	Α	73	-16.539	42.946	54.416	1.00 52.82
ATOM	560	CD2	TYR	A	73	-16.927	42.967	52.039	1.00 53.30
MOTA	561	CE1	TYR	Α	73	-16.439	44.340	54.422	1.00 52.71
	562	CE2	TYR		73	-16.804	44.359	52.026	1.00 55.39
ATOM									
ATOM	563	CZ	TYR		73	-16.592	45.044	53.229	1.00 63.45
ATOM	564	OH	TYR	A	73	-16.471	46.404	53.215	1.00 69.53
MOTA	565	N	ALA	A	74	-17.927	40.494	56.112	1.00 45.37
ATOM	566	CA	ALA		74	-18.180	40.999	57.433	1.00 42.62
								58.222	1.00 47.81
MOTA	567	C	ALA		74	-16.892	41.265		
MOTA	568	0	ALA	A	74	-15.894	40.554	58.133	1.00 45.50
ATOM	569	CB	ALA	Α	74	-19.111	40.035	58.170	1.00 40.75
ATOM	570	N	LEU	A	75	-16.930	42.323	59.005	1.00 49.02
ATOM	571	CA	LEU		75	-15.829	42.693	59.869	1.00 48.85
									1.00 47.18
MOTA	572	C	LEU		75	-16.319	42.464	61.281	
ATOM	573	0	LEU	A	75	-17.309	43.021	61.687	1.00 44.35
ATOM	574	CB	LEU	Α	75	-15.332	44.136	59.675	1.00 49.64
ATOM	575	CG	LEU	Α	75	-14.789	44.357	58.270	1.00 58.09
ATOM	576		LEU		75	-14.524	45.841	58.023	1.00 61.34
			LEU		75	-13.512	43.565	58.069	1.00 62.34
ATOM	577	CD2							
ATOM	578	N	GLY	A	76	-15.647	41.592	62.004	1.00 47.67
ATOM	579	CA	GLY	Α	76	-16.034	41.281	63.359	1.00 46.79
ATOM	580	C	GLY	A	76	-15.495	42.337	64.279	1.00 47.74
ATOM	581	0	GLY		76	-14.656	43.171	63.882	1.00 42.87
		И	GLU		77	-15.988	42.311	65.502	1.00 48.32
ATOM	582								
MOTA	583	CA	GLU		77	-15.526	43.300	66.431	1.00 52.14
MOTA	584	C	GLU	A	77	-14.029	43.195	66.679	1.00 56.71
MOTA	585	0	GLU	Α	77	-13.418	42.120	66.591	1.00 55.78
ATOM	586	CB	GLU	A	77	-16.357	43.341	67.732	1.00 55.55
ATOM	587	CG	GLU		77	-17.198	42.063	67.969	1.00 79.57
		CD	GLU		77	-17.440	41.739	69.427	1.00100.00
ATOM	588								1.00100.00
MOTA	589	OE1	GLU		77	-16.537	41.435	70.211	
MOTA	590	OE2	GLU	Α	77	-18.712	41.799	69.770	1.00100.00
ATOM	591	И	ARG	Α	78	-13.452	44.344	67.000	1.00 54.17
ATOM	592	CA	ARG	A	78	-12.041	44.433	67.298	1.00 53.38
ATOM	593	C	ARG	Α	78	-11.627	43.656	68.579	1.00 58.88
ATOM	594	ō	ARG		78	-12.247	43.767	69.635	1.00 61.35
					78	-11.571	45.891	67.367	1.00 41.96
ATOM	595	CB	ARG						
ATOM	596	CG	ARG		78	-10.050	46.006	67.326	1.00 38.20
MOTA	597	CD	ARG	Α	78	-9.537	47.411	67.551	1.00 44.73
MOTA	598	NE	ARG	Α	78	-8.294	47.648	66.842	1.00 66.47
MOTA	599	cz	ARG	A	78	-7.250	48.247	67.389	1.00 97.61
ATOM	600	NH1			78	-7.276	48.692	68.645	1.00100.00
	601		ARG		78	-6.151	48.413	66.663	1.00 80.10
MOTA									
MOTA	602	N	GLN		79	-10.557	42.857	68.463	1.00 49.54
ATOM	603	CA	GLN		79	-9.995	42.115	69.566	1.00 47.71
MOTA	604	C	GLN	Α	79	-8.664	42.789	69.865	1.00 49.77
ATOM	605	0	GLN	Α	79	-7.626	42.421	69.333	1.00 52.63
ATOM	606	CB	GLN		79	-9.803	40.613	69.240	1.00 49.05
MOTA	607	CG	GLN		79	-11.109	39.794	69.339	1.00 57.32
									1.00 69.51
MOTA	608	CD	GLN		79	-11.043	38.435	68.656	
MOTA	609	OE1	GLN	A	79	-10.400	37.480	69.152	1.00 49.72
MOTA	610	NE2	GLN	A	79	-11.727	38.340	67.517	1.00 62.60
MOTA	611	N	SER		80	-8.699	43.826	70.683	1.00 41.74
ATOM	612	CA	SER		80	-7.490	44.543	71.022	1.00 37.90
			SER		80	-6.437	44.559	69.920	1.00 35.98
MOTA	613	C							
ATOM	614	0	SER		80	-6.736	44.939	68.801	1.00 34.52
ATOM	615	CB	SER		80	-6.910	44.144	72.372	1.00 39.07
MOTA	616	OG	SER	Α	80	-7.255	42.803	72.684	1.00 61.32
ATOM	617	N	TYR	A	81	-5.206	44.154	70.289	1.00 29.92
	618	CA	TYR		81	-4.027	44.114	69.430	1.00 26.45
ATOM									

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MOTA	619	C	TYR	A	81	-4.163	43.116	68.285	1.00 30.82
MOTA	620	0	TYR	Α	81	-3.480	43.215	67.269	1.00 34.48
ATOM	621	CB	TYR	Α	81	-2.727	43.893	70.257	1.00 25.19
ATOM	622	CG	TYR		81	-2.713	42.491	70.839	
				_					1.00 24.57
MOTA	623	CD1			81	-3.327	42.247	72.066	1.00 27.27
ATOM	624	CD2	TYR	A	81	-2.165	41.410	70.148	1.00 21.82
ATOM	625	CE1	TYR	Α	81	-3.380	40.975	72.632	1.00 26.49
ATOM	626	CE2	TYR	Δ	81	-2.230	40.122	70.682	1.00 23.48
ATOM	627	CZ			81				
			TYR			-2.827	39.908	71.930	1.00 38.28
MOTA	628	ОН	TYR	A	81	-2.889	38.653	72.493	1.00 42.17
ATOM	629	N	LYS	Α	82	-5.038	42.136	68.415	1.00 26.97
ATOM	630	CA	LYS	Α	82	-5.170	41.229	67.293	1.00 27.99
ATOM	631	С	LYS		82	-5.867	41.898	66.072	1.00 38.90
	632	ō			82			64.900	
ATOM			LYS			-5.614	41.541		1.00 37.15
MOTA	633	CB	LYS	Α	82	-5.785	39.918	67.708	1.00 27.59
ATOM	634	CG	LYS	Α	82	-5.169	39.451	69.008	1.00 39.68
ATOM	635	CD	LYS	Α	82	-5.435	37.993	69.350	1.00 46.78
ATOM	636	CE	LYS		82	-6.414	37.819	70.492	1.00 59.84
ATOM	637	NZ	LYS		82	-7.097	36.523	70.452	1.00 63.48
MOTA	638	N	GLY	A	83	-6.738	42.894	66.367	1.00 35.64
ATOM	639	CA	GLY	Α	83	-7.512	43.620	65.368	1.00 33.65
ATOM	640	С	GLY	A	83	-8.866	42.925	65.111	1.00 32.95
ATOM	641	0	GLY	Δ	83	-9.297	42.063	65.870	1.00 28.28
ATOM	642	N	SER		84	-9.535	43.300	64.026	1.00 34.51
							-		
ATOM	643	CA	SER		84	-10.839	42.742	63.673	1.00 36.13
ATOM	644	C	SER	A	84	-10.796	41.724	62.549	1.00 40.65
MOTA	645	0	SER	Α	84	-10.173	41.893	61.501	1.00 39.77
ATOM	646	CB	SER	A	84	-11.883	43.808	63.383	1.00 37.68
ATOM	647	OG	SER		84	-11.812	44.832	64.352	1.00 45.14
MOTA	648	Ŋ	PRO		85	-11.491	40.656	62.791	1.00 37.01
ATOM	649	CA	PRO		85	-11.573	39.559	61.863	1.00 34.91
ATOM	650	C	PRO		85	-12.459	39.946	60.712	1.00 35.92
MOTA	651	0	PRO	A	85	-13.514	40.522	60.941	1.00 35.30
MOTA	652	CB	PRO	Α	85	-12.227	38.406	62.647	1.00 37.00
ATOM	653	CG	PRO	A	85	-12.714	38.981	63.974	1.00 44.97
MOTA	654	CD	PRO	Α	85	-12.325	40.462	64.004	1.00 40.72
ATOM	655	N	MET		86	-12.018	39.642	59.487	1.00 30.47
MOTA	656	CA	MET		86	-12.756	39.960	58.275	1.00 28.55
MOTA	657	C	MET	A	86	-13.165	38.683	57.552	1.00 40.49
ATOM	658	0	MET	Α	86	-12.338	38.015	56.954	1.00 39.69
ATOM	659	CB	MET	A	86	-11.921	40.829	57.337	1.00 29.51
ATOM	660	CG	MET	Α	86	-12.750	41.242	56.136	1.00 37.40
ATOM	661	SD	MET		86	-11.816	41.878	54.701	1.00 47.84
ATOM	662	CE	MET		86	-13.244	42.527	53.805	1.00 46.52
ATOM	663	N	GLU		87	-14.441	38.324	57.610	1.00 44.34
ATOM	664	CA	GLU		87	-14.912	37.107	56.950	1.00 47.21
MOTA	665	C	GLU	Α	87	-15.495	37.352	55.560	1.00 51.53
ATOM	666	0	GLU	A	87	-16.425	38.129	55.424	1.00 53.92
ATOM	667	CB	GLU		87	-15.942	36.390	57.813	1.00 49.46
ATOM	668	CG	GLU		87	-16.144		57.389	1.00 56.39
							34.937		
ATOM	669	CD	GLU		87	-17.300	34.316	58.104	1.00 80.78
MOTA	670	OE1	GLU	A	87	-18.439	34.738	57.994	1.00 86.69
ATOM	671	OE2	GLU	A	87	-16.943	33.301	58.8 <i>6</i> 8	1.00 68.69
ATOM	672	N	ILE	A	88	-14.942	36.659	54.544	1.00 43.84
ATOM	673	CA	ILE		88	-15.332	36.765	53.145	1.00 40.15
MOTA	674	C	ILE		88	-16.145	35.610	52.613	1.00 46.72
ATOM	675	0	ILE		88	-15.725	34.460	52.656	1.00 48.10
MOTA	676	CB	ILE		88	-14.107	36.891	52.292	1.00 39.13
MOTA	677	CG1			88	-13.328	38.146	52.696	1.00 38.40
MOTA	678	CG2	ILE	Α	88	-14.538	36.932	50.839	1.00 28.13
MOTA	679	CD1	ILE	A	88	-11.944	38.200	52.051	1.00 30.07

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ATOM	680	N	SER		89	-17.314	35.931	52.077	1.00 45.16
ATOM	681	CA	SER	A	89	-18.181	34.893	51.559	1.00 44.76
MOTA	682	С	SER	Α	89	-17.902	34.531	50.131	1.00 46.01
MOTA	683	0	SER	A	89	-18.048	35.347	49.243	1.00 44.34
ATOM	684	CB	SER		89	-19.657	35.121	51.827	1.00 51.87
ATOM	685	OG	SER		89	-19.942	34.834	53.198	1.00 69.07
ATOM	686	N	LEU	Α	90	-17.494	33.279	49.914	1.00 46.43
ATOM	687	CA	LEU	Α	90	-17.204	32.804	48.575	1.00 46.93
ATOM	688	C	LEU		90	-18.450	32.235	47.935	1.00 55.26
			LEU				31.476	48.556	1.00 54.94
ATOM	689	0			90	-19.210			
ATOM	690	CB	LEU		90	-16.080	31.750	48.521	1.00 46.14
MOTA	691	CG	LEU	Α	90	-15.262	31.607	49.792	1.00 50.78
MOTA	692	CD1	LEU	Α	90	-14.546	30.261	49.806	1.00 50.27
MOTA	693	CD2			90	-14.219	32.708	49.863	1.00 55.52
ATOM					91	-18.626	32.607	46.683	1.00 54.81
	694	N	PRO						
ATOM	695	CA	PRO		91	-19.756	32.183	45.870	1.00 58.45
ATOM	696	C	PRO	А	91	-19.585	30.782	45.254	1.00 67.78
ATOM	697	0	PRO	Α	91	-20.500	30.250	44.623	1.00 68.64
ATOM	698	CB	PRO	Α	91	-19.843	33.213	44.738	1.00 59.70
ATOM	699	CG	PRO		91	-18.503	33.952	44.711	1.00 61.25
MOTA	700	CD	PRO		91	-17.731	33.539	45.961	1.00 54.16
MOTA	701	N	ILE	Α	92	-18.413	30.177	45.416	1.00 64.82
MOTA	702	CA	ILE	Α	92	-18.210	28.863	44.850	1.00 65.03
MOTA	703	С	ILE	Α	92	-17.485	27.948	45.801	1.00 66.34
ATOM	704	0	ILE	Δ	92	-16.258	27.984	45.865	1.00 70.20
ATOM	705	CB	ILE		92	-17.433	28.927	43.547	1.00 69.56
									1.00 70.02
ATOM	706	CG1	_	-	92	-18.298	29.495	42.430	
ATOM	707	CG2	ILE		92	-16.975	27.517	43.171	1.00 71.86
MOTA	708	CD1	ILE	Α	92	-17.528	29.672	41.121	1.00 80.63
ATOM	709	N	ALA	Α	93	-18.219	27.115	46.534	1.00 54.40
ATOM	710	CA	ALA	Α	93	-17.526	26.247	47.452	1.00 51.74
ATOM	711	С	ALA		93	-16.265	25.750	46.804	1.00 52.66
MOTA	712	ō	ALA		93	-16.288	25.319	45.662	1.00 49.87
ATOM	713	CB	ALA		93	-18.367	25.101	47.968	1.00 52.76
MOTA	714	N	LEU		94	-15.162	25.861	47.544	1.00 48.18
ATOM	715	CA	LEU	A	94	-13.862	25.425	47.067	1.00 43.27
ATOM	716	C	LEU	Α	94	-13.566	24.066	47.581	1.00 43.98
ATOM	717	0	LEU	A	94	-14.086	23.633	48.601	1.00 44.63
ATOM	718	CB	LEU	Α	94	-12.713	26.344	47.509	1.00 41.05
ATOM	719	CG	LEU		94	-12.685	27.638	46.739	1.00 40.03
									1.00 36.88
ATOM	720		LEU		94	-11.272	28.200	46.751	
MOTA	721		LEU		94	-13.115	27.343	45.311	1.00 44.98
ATOM	722	N	SER	A	95	-12.706	23.406	46.875	1.00 43.26
ATOM	723	CA	SER	Α	95	-12.321	22.074	47.256	1.00 43.76
ATOM	724	С	SER	A	95	-10.807	21.991	47.344	1.00 38.58
ATOM	725	0	SER		95	-10.087	22.944	46.975	1.00 36.78
		CB			95	-12.902	21.092	46.256	1.00 51.55
ATOM	726		SER						
ATOM	727	OG	SER		95	-14.299	21.305	46.156	
MOTA	728	N	LYS		96	-10.321	20.863	47.830	1.00 31.10
MOTA	729	CA	LYS	A	96	-8.883	20.723	47.958	1.00 34.92
MOTA	730	С	LYS	A	96	-8.058	21.238	46.777	1.00 45.63
ATOM	731	0	LYS	Α	96	-8.400	21.063	45.612	1.00 49.35
ATOM	732	СВ	LYS		96	-8.401	19.366	48.451	1.00 38.53
							18.871	49.651	1.00 58.55
MOTA	733	CG	LYS		96	-9.189			
MOTA	734	CD	LYS		96	-8.691	17.549	50.221	1.00 80.86
ATOM	735	CE	LYS		96	-9.596	17.011	51.330	1.00 92.53
MOTA	736	NZ	LYS	A	96	-9.049	15.833	52.029	1.00100.00
ATOM	737	И	ASN	A	97	-б.944	21.873	47.108	1.00 41.92
ATOM	738	CA	ASN		97	~6.009	22.403	46.139	1.00 40.91
ATOM	739	C	ASN		97	-6.606	23.348	45.088	1.00 42.64
	740	0	ASN		97	-5.963	23.681	44.068	1.00 38.69
MOTA	140	9	W-214	~	21	-3.303	23.001	##.U00	1.00 30.03

MOTA	741	CB	asn a	97	-5.084	21.304	45.583	1.00 28.16
ATOM	742	CG	ASN A	97	-4.327	20.568	46.677	1.00 52.21
ATOM	743	OD1	ASN A	97	-3.089	20.627	46.744	1.00 55.30
ATOM	744		ASN A	97	-5.060	19.858	47.533	1.00 53.87
ATOM	745	N	GLN A	98	-7.833	23.791	45.382	
								1.00 36.59
ATOM	746	CA	GLN A		-8.557	24.718	44.536	1.00 38.44
MOTA	747	С	GLN A	98	-8.288	26.181	44.951	1.00 43.30
MOTA	748	0	GLN A	98	-8.248	26.526	46.138	1.00 43.40
MOTA	749	CB	GLN A	98	-10.064	24.395	44.575	1.00 42.26
ATOM	750	CG	GLN A	98	-10.553	23.538	43.385	1.00 68.24
ATOM	751	CD	GLN A	98	-12.008	23.778	43.010	1.00 95.57
ATOM	752		GLN A	98	-12.890	22.935	43.278	
								1.00 86.92
MOTA	753	NE2		98	-12.271	24.935	42.393	1.00 95.48
MOTA	754	N	GLU A	99	-8.089	27.062	43.973	1.00 39.70
MOTA	755	CA	GLU A	99	-7.817	28.468	44.280	1.00 40.49
MOTA	756	C	GLU A	99	~8.750	29.536	43.683	1.00 47.84
ATOM	757	0	GLU A	99	-9.330	29.394	42.606	1.00 46.85
ATOM	758	CB	GLU A	99	-6.361	28.866	43.951	1.00 40.24
ATOM	759	CG	GLU A	99	-5.608	27.861	43.080	1.00 44.16
		CD						
ATOM	760		GLU A	99	-4.120	28.119	42.990	1.00 65.64
ATOM	761	OE1		99	-3.636	29.062	42.376	1.00 73.95
MOTA	762	OE2	GLU A	99	-3.395	27.210	43.614	1.00 55.99
ATOM	763	N	ILE A	100	-8.848	30.643	44.418	1.00 43.55
MOTA	764	CA	ILE A	100	-9.595	31.800	44.005	1.00 43.46
ATOM	765	С	ILE A		-8.701	32.992	44.238	1.00 53.31
ATOM	766	ō	ILE A		-7.725	32.927	45.004	1.00 55.16
ATOM	767	CB	ILE A		-10.881			
						32.068	44.773	1.00 46.65
ATOM	768	CG1	ILE A		-10.762	31.640	46.227	1.00 50.76
ATOM	769	CG2	ILE A		-12.111	31.486	44.106	1.00 46.76
MOTA	770	CD1	ILE A		-9.959	32.620	47.087	1.00 64.36
MOTA	771	И	VAL A	101	-9.060	34.076	43.580	1.00 48.20
ATOM	772	CA	VAL A	101	-8.382	35.329	43.760	1.00 45.63
ATOM	773	C	VAL A	101	-9.383	36.351	44.295	1.00 48.59
ATOM	774	0	VAL A		-10.331	36.722	43.623	1.00 51.29
ATOM	775	CB	VAL A		-7.461	35.793	42.633	1.00 45.06
ATOM	776		VAL A		-7.693	35.000	41.378	1.00 43.25
MOTA	777	CG2			-7.609			
						37.289	42.395	1.00 45.02
MOTA	778	N	ILE A		-9.182	36.738	45.546	1.00 41.15
MOTA	779	CA	ILE A		-10.023	37.690	46.238	1.00 39.43
ATOM	780	C	ILE A	102	-9.439	39.062	46.170	1.00 49.35
ATOM	781	0	ILE A	102	-8.331	39.274	46.659	1.00 53.80
ATOM	782	CB	ILE A	102	-10.097	37.319	47.694	1.00 39.19
ATOM	783	CG1	ILE A	102	-10.180	35.800	47.809	1.00 35.28
ATOM	784	CG2	ILE A	102	-11.300	37.992	48.341	1.00 35.25
MOTA	785		ILE A		-10.962	35.392	49.044	1.00 47.09
ATOM	786	N	GLU A		-10.192	39.984	45.572	1.00 43.20
ATOM		CA						
	787		GLU A		-9.748	41.362	45.433	1.00 39.88
ATOM	788	C	GLU A		-10.378	42.299	46.425	1.00 44.03
ATOM	789	0	GLU A		-11.580	42.558	46.385	1.00 41.34
MOTA	790	CB	GLU A		-9.950	41.930	44.047	1.00 39.11
ATOM	791	CG	GLU A	103	-9.017	43.112	43.863	1.00 36.18
MOTA	792	CD	GLU A	103	-9.150	43.666	42.485	1.00 61.93
MOTA	793	OE1	GLU A	103	-10.157	44.234	42.100	1.00 69.89
ATOM	794	OE2			-8.087	43.457	41.744	1.00 76.18
ATOM	795	N	ILE A		-9.534	42.797	47.322	1.00 42.69
MOTA	796	CA	ILE A		-9.969	43.718	48.346	1.00 40.72
ATOM	797	С	ILE A		-9.522	45.167	48.099	1.00 46.21
ATOM	798	0	ILE A		-8.346	45.478	47.866	1.00 42.68
MOTA	799	CB	ILE A		-9.578	43.283	49.754	1.00 41.75
MOTA	800	CG1	ILE A	104	-10.006	41.855	50.032	1.00 39.85
ATOM	801	CG2	ILE A	104	-10.225	44.222	50.768	1.00 41.53

MOTA	802	CD1	ILE	Α	104	-8.839	40.995	50.485	1.00 34.17
MOTA	803	N	SER	Α	105	-10.506	46.056	48.173	1.00 47.94
ATOM	804	CA	SER	Α	105	-10.278	47.481	48.046	1.00 48.05
ATOM	805	C			105	-10.184	47.977	49.482	1.00 42.39
ATOM	806	ō			105	-11.134	47.879	50.263	1.00 39.69
ATOM	807	CB			105	-11.399	48.180	47.290	1.00 53.77
ATOM	808	0G			105	-11.399	47.789	45.930	1.00 60.69
MOTA	809	N			106	~9.020	48.445	49.857	1.00 35.07
ATOM	810	CA			106	-8.844	48.890	51.223	1.00 34.98
ATOM	811	C			106	-8.177	50.238	51.262	1.00 39.26
ATOM	812	0			106	-7.607	50.730	50.265	1.00 34.24
	813	CB			106	-8.015	47.864	52.060	1.00 36.05
ATOM	814	CG			106	-6.581	47.815	51.556	1.00 37.24
MOTA			PHE			-6.251	47.073	50.422	1.00 37.24
MOTA	815						48.579	52.161	1.00 36.44
ATOM	816		PHE			-5.579		49.920	
ATOM	817		PHE			-4.950	47.086		1.00 41.48
ATOM	818		PHE			-4.273	48.609	51.672	1.00 38.19
ATOM	819	CZ			106	-3.961	47.856	50.540	1.00 37.91
ATOM	820	N			107	-8.284	50.794	52.453	1.00 40.64
ATOM	821	CA			107	-7.711	52.064	52.848	1.00 43.81
ATOM	822	C			107	-7.206	51.869	54.284	1.00 43.82
MOTA	823	0			107	-7.933	51.303	55.121	1.00 38.38
MOTA	824	CB			107	-8.737	53.234	52.753	1.00 46.93
MOTA	825	CG			107	-8.107	54.637	52.467	1.00 67.21
MOTA	826	CD			107	-9.086	55.715	52.042	1.00100.00
ATOM	827	OE1			107	-10.208	55.504	51.599	1.00100.00
MOTA	828	OE2	GLU	A	107	-8.631	56.938	52.221	1.00 93.72
MOTA	829	N	THR	Α	108	-5.963	52.294	54.551	1.00 39.12
MOTA	830	CA	THR	Α	108	-5.345	52.175	55.873	1.00 39.69
MOTA	831	С			108	-5.564	53.427	56.724	1.00 49.82
MOTA	832	0			108	-5.565	54.552	56.177	1.00 50.94
ATOM	833	CB			108	-3.810	52.095	55.722	1.00 40.40
MOTA	834	OG1			108	-3.360	53.226	54.981	1.00 32.22
MOTA	835	CG2			108	-3.371	50.802	55.042	1.00 46.43
MOTA	836	N			109	-5.698	53.217	58.065	1.00 42.02
MOTA	837	CA			109	-5.848	54.294	59.038	1.00 38.13
MOTA	838	С			109	-4.555	55.101	59.082	1.00 38.47
MOTA	839	0			109	-3.460	54.583	58.921	1.00 33.60
MOTA	840	CB			109	-6.166	53.759	60.437	1.00 41.44
MOTA	841	OG			109	-6.205	54.812	61.404	1.00 47.63
ATOM	842	N			110	-4.655	56.392	59.308	1.00 41.64
MOTA	843	CA			110	-3.419	57.116	59.393	1.00 40.75
MOTA	844	С			110	-2.803	56.749	60.725	1.00 41.47
ATOM	845	0			110	-1.676	57.080	61.009	1.00 42.30
MOTA	846	CB	PRO	A	110	-3.721	58.605	59.298	1.00 42.09
ATOM	847	CG			110	-5.224	58.719	59.132	1.00 48.77
ATOM	848	CD			110	-5.811	57.318	59.269	1.00 44.58
ATOM	849	N			111	-3.578	56.017	61.518	1.00 36.35
ATOM	850	CA			111	-3.167	55.535	62.819	1.00 36.74
MOTA	851	C			111	-2.669	54.083	62.720	1.00 40.19
ATOM	852	0			111	-2.733	53.319	63.678	1.00 40.53
ATOM	853	CB			111	-4.341	55.606	63.807	1.00 41.91
MOTA	854	CG			111	-4.362	56.838	64.708	1.00 71.21
MOTA	855	CD			111	-5.421	57.854	64.309	1.00 97.95
ATOM	856	CE			111	-6.839	57.394	64.611	1.00100.00
MOTA	857	NZ			111	-7.853	58.120	63.819	1.00100.00
MOTA	858	N			112	-2.184	53.670	61.550	1.00 36.84
MOTA	859	CA			112	-1.714	52.296	61.358	1.00 34.35
MOTA	860	C			112	-0.518	51.917	62.225	1.00 35.57
MOTA	861	0			112	0.533	52.548	62.166	1.00 32.49
ATOM	862	CB	SER	A	112	-1.449	51.995	59.883	1.00 35.16

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ATOM	863	OG			112	-0.682	50.814	59.762	1.00 31.94
MOTA	864	N			113	-0.666	50.872	63.033	1.00 31.84
ATOM	865	CA	SER	A	113	0.445	50.460	63.866	1.00 29.27
MOTA	866	C	SER	Α	113	1.601	49.927	63.040	1.00 33.37
MOTA	867	0	SER	Α	113	2.715	49.792	63.497	1.00 32.95
ATOM	868	CB			113	0.052	49.498	64.945	1.00 29.45
MOTA	869	OG			113	0.045	48.169	64.462	1.00 34.27
ATOM	870	N			114	1.357	49.628	61.797	1.00 33.69
MOTA	871	CA			114	2.437	49.134	60.981	1.00 34.05
ATOM	872	C			114	3.239	50.287	60.388	1.00 37.83
MOTA	873	0	ALA	A	114	4.411	50.149	60.033	1.00 37.72
ATOM	874	CB	ALA	Α	114	1.845	48.292	59.852	1.00 34.51
MOTA	875	N	LEU	A	115	2.580	51.432	60.259	1.00 32.19
ATOM	876	CA	LEU	A	115	3.201	52.595	59.662	1.00 30.48
ATOM	877	C	LEU	Α	115	3.509	53.745	60.565	1.00 35.32
ATOM	878	0			115	2.902	54.012	61.604	1.00 35.25
ATOM	879	CB			115	2.358	53.156	58.507	1.00 30.53
ATOM	880	CG			115	1.787		57.602	
							52.064		1.00 35.51
ATOM	881		TEU			0.812	52.710	56.637	1.00 35.12
ATOM	882	CD2				2.903	51.387	56.821	1.00 33.88
ATOM	883	N			116	4.490	54.457	60.096	1.00 34.00
ATOM	884	CA			116	4.926	55.656	60.737	1.00 32.52
MOTA	885	C	GLN	Α	116	5.066	56.689	59.645	1.00 31.34
MOTA	886	0	GLN	A	116	5.880	56.552	58.729	1.00 28.29
ATOM	887	CB	GLN	Α	116	6.232	55.540	61.496	1.00 32.66
ATOM	888	CG			116	6.419	56.813	62.322	1.00 41.25
ATOM	889	CD			116	7.777	56.897	62.952	1.00 50.08
ATOM	890	OE1				8.515	55.905	63.017	1.00 55.36
ATOM	891	NE2				8.090	58.081	63.438	1.00 38.23
	892	N			117	4.210	57.680	59.748	1.00 26.66
MOTA									
ATOM	893	CA			117	4.148	58.785	58.827	1.00 26.04
MOTA	894	C			117	4.912	59.978	59.375	1.00 34.56
MOTA	895	0	TRP			4.467	60.589	60.364	1.00 36.83
MOTA	896	CB	TRP			2.669	59.188	58.630	1.00 23.15
MOTA	897	CG	TRP			1.826	58.209	57.863	1.00 23.02
MOTA	898	CD1	TRP	A	117	1.052	57.224	58.397	1.00 26.39
MOTA	899	CD2	TRP	Α	117	1.640	58.135	56.433	1.00 21.06
MOTA	900	NE1	TRP	Α	117	0.395	56.534	57.393	1.00 26.40
MOTA	901	CE2	TRP	Α	117	0.735	57.087	56.184	1.00 27.99
ATOM	902	CE3	TRP	A	117	2.121	58.872	55.361	1.00 20.95
ATOM	903	CZ2	TRP	A	117	0.352	56.753	54.886	1.00 28.21
MOTA	904	CZ3	TRP			1.750	58.560	54.079	1.00 22.43
ATOM	905	CH2	TRP			0.872	57.512	53.847	1.00 24.28
ATOM	906	N.	LEU			6.043	60.340	58.756	1.00 31.44
ATOM	907	CA	LEU			6.745	61.506	59.276	1.00 36.67
			LEU			6.584	62.774		
ATOM	908	C						58.432	1.00 46.93
ATOM	909	0	LEU			6.434	62.705	57.210	1.00 51.17
MOTA	910	CB	LEU			8.250	61.327	59.577	1.00 38.83
ATOM	911	CG	LEU			8.881	59.939	59.398	1.00 44.33
ATOM	912		LEU			10.392	60.065	59.569	1.00 42.12
ATOM	913	CD2	LEU			8.351	58.950	60.426	1.00 49.99
ATOM	914	N	THR	A	119	6.524	63.939	59.109	1.00 41.34
ATOM	915	CA	THR	A	119	6.449	65.260	58.468	1.00 38.89
ATOM	916	C	THR	Α	119	7.847	65.633	58.034	1.00 40.14
ATOM	917	0	THR			8.841	65.165	58.605	1.00 44.03
ATOM	918	CB	THR			5.932	66.300	59.467	1.00 42.63
ATOM	919		THR			6.994	66.605	60.362	1.00 50.01
ATOM	920		THR			4.769	65.668	60.224	1.00 36.78
ATOM	921	N	PRO			7.963	66.440	57.020	1.00 33.41
ATOM	922	CA	PRO			9.275	66.781	56.517	1.00 33.41
		C	PRO			10.260	67.209	57.599	1.00 38.27
ATOM	923	C	FRU	A	120	10.200	01.209	31.333	1.00 35.27

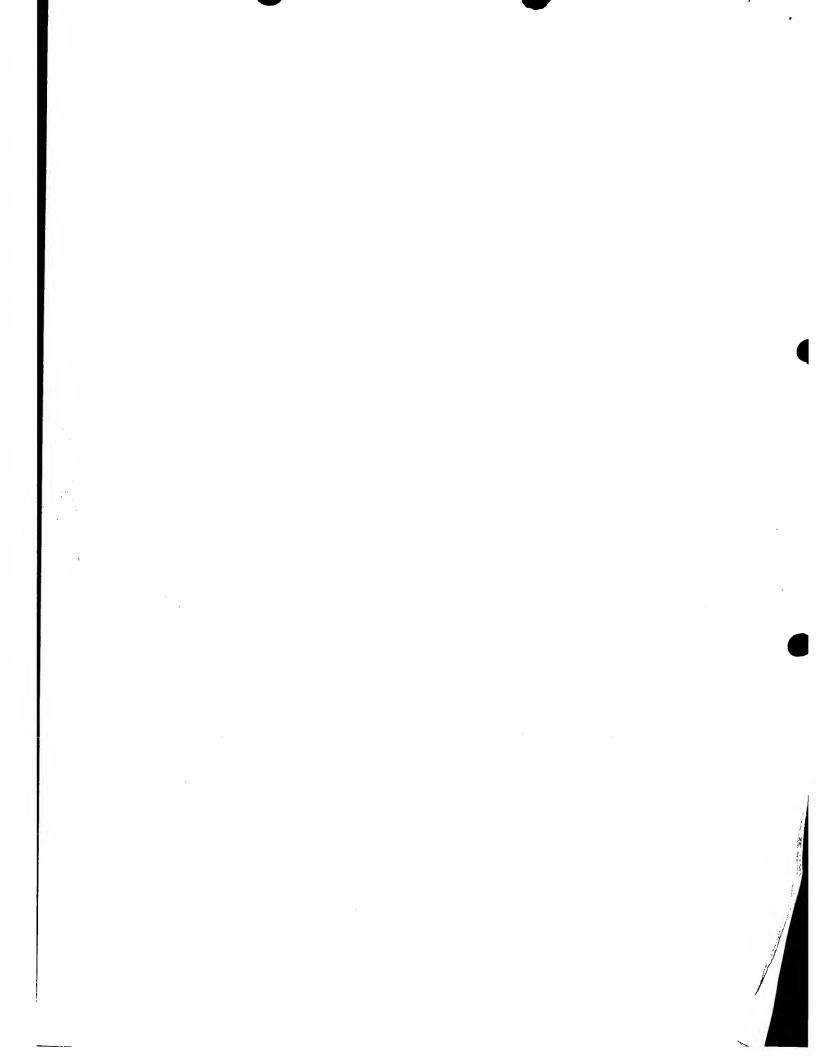
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MOTA	924	0	PRO			11.433	66.829	57.566	
MOTA	925	CB	PRO	Α	120	9.068	67.840	55.416	1.00 33.54
MOTA	926	CG	PRO	Α	120	7.582	67.823	55.097	1.00 34.86
ATOM	927	CD	PRO	Δ	120	6.891	67.180	56.300	1.00 30.86
							67.982	58.563	1.00 38.03
MOTA	928	N			121	9.751			
MOTA	929	CA	GLU	A	121	10.534	68.474	59.681	1.00 41.03
MOTA	930	C	GLU	Α	121	11.212	67.361	60.411	1.00 50.88
MOTA	931	0	GLU	Α	121	12.279	67.548	60.977	1.00 54.97
ATOM	932	CB	GLU			9.742	69.325	60.699	1.00 43.28
MOTA	933	CG	GLU			8.220	69.071	60.702	1.00 64.72
MOTA	934	$^{\rm CD}$	GLU	A	121	7.398	70.118	59.988	1.00 86.07
MOTA	935	OE1	GLU	A	121	7.007	71.131	60.538	1.00100.00
ATOM	936	OE2	GLU	Δ	121	7.108	69.803	58.739	1.00 59.72
	937		GLN			10.569	66.202	60.394	1.00 44.09
ATOM		N							
MOTA	938	CA	GLN			11.083	65.019	61.041	1.00 40.20
MOTA	939	C	GLN	Α	122	12.170	64.373	60.232	1.00 47.73
MOTA	940	0	GLN	A	122	12.711	63.343	60.643	1.00 53.29
MOTA	941	CB	GLN			9.965	63.992	61.224	1.00 39.31
			GLN			9.057	64.441	62.361	1.00 30.23
ATOM	942	CG							
ATOM	943	CD	GLN	A	122	7.756	63.691	62.438	1.00 38.25
MOTA	944	OE1	GLN	Α	122	6.899	63.804	61.548	1.00 53.34
ATOM	945	NE2	GLN	A	122	7.592	62.938	63.521	1.00 18.98
ATOM	946	N	THR			12.486	64.942	59.074	1.00 38.99
							64.319	58.229	1.00 36.00
ATOM	947	CA	THR			13.490			
MOTA	948	C	THR			14.755	65.034	58.264	1.00 35.30
MOTA	949	0	THR	Α	123	14.842	66.074	58.875	1.00 34.95
ATOM	950	CB	THR	Α	123	13.067	64.145	56.759	1.00 38.25
ATOM	951	OG1	THR	А	123	13.144	65.374	56.046	1.00 43.75
ATOM	952	CG2				11.643	63.616	56.725	1.00 40.72
			SER			15.699	64.447	57.557	1.00 32.18
ATOM	953	N							
ATOM	954	CA	SER			17.025	64.996	57.442	1.00 33.71
MOTA	955	C	SER	Α	124	17.007	66.216	56.553	1.00 39.04
ATOM	956	0	SER	A	124	17.537	67.268	56.883	1.00 39.07
ATOM	957	CB	SER	A	124	18.023	63.992	56.859	1.00 37.73
ATOM	958	OG	SER	А	124	18.359	62.978	57.796	1.00 36.28
ATOM	959	N			125 ·	16.389	66.025	55.414	1.00 38.59
						16.280	67.034	54.396	1.00 39.90
ATOM	960	CA	GLY						
MOTA	961	С	GLY			15.290	68.094	54.749	1.00 46.83
ATOM	962	0	GLY	A	125	15.347	69.171	54.172	1.00 49.78
ATOM	963	N	LYS	Α	126	14.391	67.788	55.678	1.00 41.09
ATOM	964	CA	LYS	A	126	13.396	68.761	56.126	1.00 41.26
ATOM	965	C	LYS			12.498	69.307	55.020	1.00 47.42
	966	ō	LYS			11.617	70.141	55.279	1.00 48.94
ATOM									
MOTA	967	CB			126	14.024	69.936	56.894	1.00 41.98
MOTA	968	CG	LYS			15.094	69.555	57.913	1.00 45.84
MOTA	969	CD	LYS	Α	126	14.535	68.838	59.135	1.00 58.74
ATOM	970	CE	LYS	A	126	15.612	68.500	60.151	1.00 72.12
ATOM	971	NZ	LYS			15.395	67.218	60.839	1.00 88.38
	972	N	GLU			12.722	68.858	53.792	1.00 41.82
ATOM									
ATOM	973	CA	GLU			11.921	69.344	52.708	1.00 41.98
ATOM	974	C	GLU	А	127	10.899	68.334	52.239	1.00 45.14
MOTA	975	0	GLU	A	127	9.994	68.683	51.496	1.00 46.95
MOTA	976	CB	GLU	Α	127	12.727	70.015	51.543	1.00 44.39
ATOM	977	CG	GLU			13.198	71.499	51.820	1.00 57.99
			GLU			12.331	72.659	51.301	1.00100.00
ATOM	978	CD							
ATOM	979		GLU			11.652	72.611	50.286	1.00100.00
MOTA	980	OE2	GLU			12.387	73.758	52.054	1.00100.00
ATOM	981	N	HIS	A	128	11.027	67.077	52.653	1.00 39.18
ATOM	982	CA	HIS	Α	128	10.068	66.072	52.210	1.00 39.43
ATOM	983	C	HIS			9.636	65.148	53.316	1.00 42.09
	984	0	HIS			10.366	64.955	54.281	1.00 45.34
MOTA	20 <b>4</b>	J	uro	M	120	70.700	54.355	74.501	1.00 40.04

MOTA	985	CB	HIS	Α	128	10.628	65.194	51.097	1.00 42.16
ATOM	986	CG	HIS	Α	128	10.947	65.936	49.854	1.00 47.24
ATOM	987	ND1	HIS	Α	128	9.943	66.423	49.029	1.00 49.12
ATOM	988		HIS			12.159	66.262	49.322	1.00 51.13
MOTA	989		HIS			10.559	67.031	48.026	1.00 49.97
ATOM	990	NE2			128	11.888	66.953	48.166	1.00 50.87
ATOM	991	N	PRO	Α	129	8.447	64.572	53.171	1.00 32.55
MOTA	992	CA	PRO	Α	129	7.968	63.650	54.163	1.00 31.15
ATOM	993	C			129	8.636	62.328	53.900	1.00 34.90
ATOM	994	ō			129	9.481			
							62.214	53.021	1.00 35.46
ATOM	995	CB			129	6.466	63.490	53.986	1.00 31.94
ATOM	996	CG	PRO	Α	129	6.133	64.104	52.649	1.00 36.83
MOTA	997	CD	PRO	Α	129	7.384	64.850	52.185	1.00 32.71
ATOM	998	N	TYR	Α	130	8.248	61.342	54.659	1.00 29.47
ATOM	999	CA	TYR	А	130	8.826	60.025	54.548	1.00 29.35
ATOM	1000	C			130	7.856	59.046	55.156	1.00 31.83
ATOM	1001	0			130	7.138	59.375	56.093	1.00 29.84
ATOM	1002	CB	TYR	A	130	10.098	60.029	55.433	1.00 30.54
MOTA	1003	CG	TYR	Α	130	11.083	58.886	55.285	1.00 29.76
ATOM	1004	CD1	TYR	Α	130	10.845	57.630	55.845	1.00 26.16
ATOM	1005	CD2	TYR	Α	130	12.290	59.110	54.619	1.00 30.28
ATOM	1006		TYR			11.795	56.621	55.721	1.00 17.87
ATOM	1007	CE2	TYR			13.253	58.114	54.479	1.00 27.75
ATOM	1008	CZ	TYR			12.983	56.866	55.031	1.00 25.76
MOTA	1009	ОН	TYR	Α	130	13.899	55.864	54.894	1.00 40.52
MOTA	1010	N	LEU	Α	131	7.832	57.842	54.647	1.00 31.12
ATOM	1011	CA	LEU	A	131	6.994	56.868	55.303	1.00 30.43
ATOM	1012	C	LEU	Α	131	7.691	55.568	55.289	1.00 33.91
ATOM	1013	ō	LEU			8.398	55.257	54.397	1.00 33.68
		CB	LEU						
ATOM	1014					5.679	56.761	54.530	
ATOM	1015	CG	LEU			5.065	55.367	54.600	1.00 21.68
ATOM	1016		LEU			4.163	55.206	55.797	1.00 17.56
ATOM	1017	CD2	LEU	Α	131	4.222	55.008	53.380	1.00 13.86
ATOM	1018	N	PHE	A	132	7.533	54.828	56.348	1.00 29.24
ATOM	1019	CA	PHE	Α	132	8.129	53.527	56.323	1.00 33.44
ATOM	1020	C	PHE			7.299	52.519	57.157	1.00 41.08
ATOM	1021	ō	PHE			6.344	52.889	57.837	1.00 46.05
MOTA	1022	CB	PHE			9.621	53.670	56.791	1.00 36.40
MOTA	1023	CG	PHE			9.763	53.895	58.256	1.00 38.11
ATOM	1024		PHE			9.601	52.821	59.053	1.00 37.18
ATOM	1025	CD2	PHE	Α	132	10.123	55.158	58.803	1.00 43.89
ATOM	1026	CE1	PHE	Α	132	9.771	52.936	60.422	1.00 41.04
ATOM	1027	CE2	PHE	Α	132	10.289	55.258	60.174	1.00 47.72
ATOM	1028	CZ	PHE			10.131	54.143	60.986	1.00 44.34
ATOM	1029	N	SER			7.612	51.221	57.002	1.00 33.47
MOTA	1030	CA	SER			6.744	50.228	57.629	1.00 29.86
MOTA	1031	C	SER			7.499	49.221	58.504	1.00 31.53
MOTA	1032	0	SER	Α	133	8.724	49.146	58.531	1.00 33.16
ATOM	1033	CB	SER	Α	133	5.942	49.481	56.535	1.00 33.19
ATOM	1034	OG	SER	A	133	6.757	48.480	55.926	1.00 50.66
ATOM	1035	N	GLN			6.703	48.466	59.294	1.00 24.61
ATOM	1036	CA	GLN			7.283	47.422	60.134	1.00 22.55
ATOM	1037	C	GLN			6.268	46.321	60.398	1.00 27.28
ATOM	1038	0	GLN			5.161	46.566	60.809	1.00 25.09
MOTA	1039	CB	GLN			7.711	48.041	61.464	1.00 23.29
ATOM	1040	CG	GLN	A	134	8.218	46.987	62.454	1.00 25.96
MOTA	1041	CD	GLN	A	134	9.423	46.290	61.872	1.00 25.65
MOTA	1042		GLN			10.296	46.876	61.263	1.00 26.36
ATOM	1043		GLN			9.445	44.965	62.095	1.00 21.75
							45.124		
ATOM	1044	N	CYS			6.435		59.820	1.00 29.60
MOTA	1045	CA	CYS	A	135	5.291	44.220	59.755	1.00 32.30

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ATOM	1046	С			135	5.442	43.006	60.662	1.00 39.58
MOTA	1047	0	CYS	A	135	4.597	42.144	60.739	1.00 40.94
MOTA	1048	CB	CYS	Α	135	5.098	43.794	58.320	1.00 35.40
ATOM	1049	SG	CYS	Δ	135	3.976	44.922	57.445	1.00 41.22
ATOM	1050	N			136	6.582	42.949	61.345	1.00 37.37
ATOM	1051	CA	GLN	Α	136	6.715	41.982	62.417	1.00 35.71
MOTA	1052	C	GLN	Α	136	6.589	42.645	63.797	1.00 31.90
MOTA	1053	0	GLN	A	136	6.878	43.803	63.981	1.00 30.54
ATOM	1054	СВ			136	8.077	41.311	62.295	1.00 37.24
ATOM	1055	CG			136	8.076	39.878	62.847	1.00 29.70
ATOM	1056	CD	GLN	Α	136	9.483	39.511	63.235	1.00 36.48
ATOM	1057	OE1	GLN	Α	136	10.366	40.328	63.356	1.00 24.49
MOTA	1058	NE2	GLN	Δ	136	9.665	38.201	63.443	1.00 22.19
ATOM	1059	N			137	5.850	41.899		
								64.648	1.00 28.56
MOTA	1060	CA			137	5.235	40.581	64.351	1.00 28.89
MOTA	1061	С	ALA	Α	137	3.860	40.503	63.630	1.00 31.83
ATOM	1062	0	ALA	Α	137	3.679	39.688	62.738	1.00 29.67
ATOM	1063	CB	ALA			5.091	39.742	65.625	1.00 28.91
ATOM	1064	N			138	2.863	41.285	64.070	1.00 27.07
MOTA	1065	CA			138	1.553	41.176	63.445	1.00 23.90
MOTA	1066	С	ILE	Α	138	0.960	42.492	63.053	1.00 28.69
ATOM	1067	0	ILE	Α	138	-0.144	42.822	63.426	1.00 31.92
MOTA	1068	СВ	ILE			0.641	40.357	64.339	1.00 25.41
ATOM	1069	CG1	ILE			0.871	40.811	65.801	1.00 27.32
ATOM	1070	CG2	ILE			1.162	38.938	64.191	1.00 16.34
ATOM	1071	CD1	ILE	Α	138	-0.275	40.615	66.826	1.00 20.22
ATOM	1072	N	HIS	Α	139	1.718	43.223	62.265	1.00 24.05
ATOM	1073	CA	HIS	Α	139	1.322	44.511	61.824	1.00 24.05
ATOM	1074	C	HIS			0.982	44.579	60.351	1.00 34.40
ATOM	1075	0	HIS			0.539	45.625	59.888	1.00 35.89
ATOM	1076	СВ	HIS	Α	139	2.439	45.519	62.173	1.00 24.63
MOTA	1077	CG	HIS	Α	139	2.689	45.619	63.657	1.00 27.97
ATOM	1078	ND1	HIS	Α	139	1.679	45.970	64.571	1.00 27.75
ATOM	1079	CD2	HIS	Α	139	3.835	45.437	64.356	1.00 28.42
ATOM	1080		HIS			2.222	45.983	65.770	1.00 26.19
ATOM	1081		HIS			3.517	45.668	65.671	1.00 27.42
ATOM	1082	N	CYS			1.181	43.490	59.598	1.00 30.28
ATOM	1083	CA	CYS	Α	140	0.832	43.517	58.181	1.00 28.08
ATOM	1084	С	CYS	Α	140	-0.671	43.765	58.011	1.00 28.98
ATOM	1085	0	CYS	А	140	-1.111	44.449	57.066	1.00 30.00
ATOM	1086	CB	CYS			1.181	42.213	57.447	1.00 28.82
ATOM	1087	SG	CYS			1.330	42.483	55.661	1.00 34.37
ATOM	1088	N	ARG	A	141	-1.440	43.168	58.949	1.00 20.78
ATOM	1089	CA	ARG	Α	141	-2.884	43.252	58.996	1.00 20.33
ATOM	1090	С	ARG	A	141	-3.286	44.684	59.003	1.00 32.37
ATOM	1091	0	ARG			-4.355	45.032	58.510	1.00 35.81
ATOM	1092	СВ	ARG			-3.557	42.498	60.156	1.00 14.60
ATOM	1093	CG	ARG			-3.081	42.891	61.568	1.00 20.94
ATOM	1094	CD	ARG	Α	141	-3.576	41.978	62.715	1.00 19.99
ATOM	1095	NE	ARG	Α	141	-2.911	40.690	62.786	1.00 18.24
ATOM	1096	CZ	ARG	А	141	-3.140	39.707	63.648	1.00 18.77
ATOM	1097		ARG			-4.029	39.739	64.634	1.00 20.76
MOTA	1098		ARG			-2.415	38.640	63.508	1.00 24.20
MOTA	1099	N	ALA			-2.408	45.511	59.580	1.00 28.35
MOTA	1100	CA	ALA	Α	142	-2.668	46.940	59.657	1.00 27.60
MOTA	1101	C	ALA	A	142	-2.369	47.652	58.345	1.00 34.33
ATOM	1102	0	ALA			-2.620	48.835	58.203	1.00 34.36
ATOM	1102	СВ	ALA			-1.994	47.616	60.843	1.00 27.67
ATOM	1104	N	ILE			-1.824	46.922	57.382	1.00 32.39
MOTA	1105	CA	ILE			-1.537	47.499	56.099	1.00 30.38
ATOM	1106	C	ILE	Α	143	-2.520	46.994	55.067	1.00 37.79

ATOM	1107	0	ILB	A	143	-2.885	47.709	54.152	1.00 42.65
ATOM	1108	CB	ILE	A	143	-0.142	47.228	55.613	1.00 32.06
ATOM	1109	CG1	ILE	Α	143	0.827	48.062	56.414	1.00 31.71
ATOM	1110	CG2	ILE	Α	143	-0.074	47.654	54.143	1.00 34.02
ATOM	1111		ILE			2.258	47.774	55.988	1.00 42.10
ATOM	1112	N	LEU			-2.939	45.749	55.218	1.00 32.50
ATOM	1113	CA	LEU			-3.873	45.142	54.291	1.00 32.36
ATOM	1114	C	LEU			-4.435	43.838	54.849	1.00 40.36
MOTA	1115	ō	LEU			-3.959	43.278	55.852	1.00 33.27
MOTA	1116	CB	LEU			-3.250	44.936	52.894	1.00 31.58
ATOM	1117	CG	LEU			-1.923	44.170	52.917	1.00 31.30
			LEU			-2.147	42.770	52.352	1.00 33.31
ATOM	1118							52.332	
ATOM	1119		LEU			-0.836	44.897	54.213	1.00 28.67 1.00 40.02
ATOM	1120	N C2	PRO			-5.490	43.347		
MOTA	1121	CA	PRO			-6.080	42.129	54.715	1.00 37.86
MOTA	1122	C	PRO			-5.264	40.941	54.286	1.00 37.87
ATOM	1123	0	PRO			-4.819	40.831	53.144	1.00 35.27
ATOM	1124	CB	PRO			-7.530	42.080	54.220	1.00 38.81
ATOM	1125	CG	PRO			-7.778	43.393	53.492	1.00 41.34
MOTA	1126	CD	PRO			-6.432	44.093	53.341	1.00 36.69
ATOM	1127	N	CYS			-5.041	40.056	55.233	1.00 36.18
ATOM	1128	CA	CYS			-4.250	38.882	54.958	1.00 35.60
ATOM	1129	C	CYS	A	146	-4.358	37.859	56.069	1.00 33.04
ATOM	1130	0	CYS	A	146	-5.067	38.062	57.050	1.00 30.78
MOTA	1131	CB	CYS	A	146	-2.761	39.287	54.813	1.00 36.08
MOTA	1132	SG	CYS	A	146	-2.087	40.108	56.302	1.00 39.43
ATOM	1133	N	${\tt GLN}$	A	147	-3.637	36.755	55.883	1.00 29.33
ATOM	1134	CA	GLN	A	147	-3.517	35.703	56.875	1.00 29.71
ATOM	1135	C	GLN	Α	147	-2.254	36.131	57.628	1.00 38.75
MOTA	1136	0	GLN	Α	147	-1.141	35.926	57.135	1.00 40.79
MOTA	1137	CB	GLN			-3.322	34.352	56.206	1.00 28.99
ATOM	1138	CG	GLN	A	147	-4.672	33.707	55.894	1.00 25.73
ATOM	1139	CD	GLN	A	147	-4.562	32.532	54.960	1.00 39.92
ATOM	1140	OE1	GLN			-4.217	32.668	53.775	1.00 43.89
ATOM	1141		GLN			-4.828	31.368	55.499	1.00 26.36
MOTA	1142	N	ASP			-2.425	36.834	58.765	1.00 32.68
ATOM	1143	CA	ASP			-1.287	37.362	59.474	1.00 33.50
ATOM	1144	С	ASP			-0.629	36.377	60.371	1.00 33.13
MOTA	1145	0	ASP			-0.622	36.563	61.584	1.00 31.30
MOTA	1146	СВ	ASP			-1.633	38.642	60.253	1.00 37.78
ATOM	1147	CG	ASP	Α	148	-0.535	39.666	60.332	1.00 45.10
ATOM	1148		ASP			0.564	39.540	59.836	1.00 47.89
ATOM	1149		ASP			-0.913	40.737	60.952	1.00 48.63
MOTA	1150	N	THR			-0.080	35.345	59.742	1.00 29.15
ATOM	1151	CA	THR			0.584	34.251	60.422	1.00 28.25
ATOM	1152	C	THR			1.805	33.831	59.625	1.00 34.92
ATOM	1153	ō	THR			1.757	33.764	58.410	1.00 34.47
ATOM	1154	СВ			149	-0.403	33.087	60.674	1.00 24.79
ATOM	1155		THR			0.241	32.059	61.352	1.00 37.15
ATOM	1156		THR			-0.905	32.527	59.345	1.00 26.56
ATOM	1157	N	PRO			2.910	33.575	60.323	1.00 34.69
ATOM	1158	CA	PRO			4.142	33.217	59.659	1.00 31.06
	1159	C	PRO			4.087	31.813	59.131	1.00 36.66
ATOM						4.995	31.356	58.450	1.00 36.37
ATOM	1160	O CP	PRO PRO					60.712	1.00 31.18
ATOM	1161	CB				5.245	33.327	60.712	
ATOM	1162	CG	PRO			4.570	33.471		1.00 36.95
ATOM	1163	CD	PRO			3.078	33.589	61.823	1.00 34.62
ATOM	1164	N	SER			2.992	31.150	59.452	1.00 31.62
MOTA	1165	CA			151	2.778	29.791	59.029	1.00 27.35
ATOM	1166	C	SER			2.357	29.738	57.564	1.00 32.97
ATOM	1167	0	SER	A	151	2.344	28.703	56.928	1.00 34.25

MOTA	1168	CB	SER	Α	151	1.714	29.203	59.905	1.00	25.95
ATOM	1169	OG	SER	A	151	0.483	29.685	59.439	1.00	49.35
MOTA	1170	N	VAL	Α	152	1.997	30.887	57.024	1.00	34.36
ATOM	1171	CA	VAL	A	152	1.595	31.015	55.623	1.00	33.74
ATOM	1172	C	VAL	Α	152	2.705	31.764	54.847		37.45
ATOM	1173	0			152	3.295	32.761	55.313		37.63
ATOM	1174	CB			152	0.203	31.697	55.427		32.61
MOTA	1175		VAL			-0.184	31.767			
ATOM		CG2						53.963		31.50
	1176				152	-0.915	30.975	56.149		31.29
ATOM	1177	N			153	2.999	31.289	53.654		26.98
ATOM	1178	CA			153	4.002	31.927	52.866		25.81
MOTA	1179	C			153	3.469	32.141	51.473		33.94
MOTA	1180	0			153	2.826	31.251	50.936		32.91
ATOM	1181	CB	LYS	A	153	5.252	31.091	52.841	1.00	24.70
MOTA	1182	CG	LYS	A	153	6.383	31.760	53.583	1.00	34.68
MOTA	1183	CD	LYS	A	153	7.641	30.893	53.616	1.00	39.37
ATOM	1184	CE	LYS	Α	153	8.121	30.506	55.015	1.00	29.09
MOTA	1185	NZ	LYS	A	153	9.556	30.152	55.112	1.00	26.03
MOTA	1186	N	LEU	Α	154	3.732	33.321	50.896		32.13
ATOM	1187	CA	LEU			3.285	33.639	49.544		30.67
MOTA	1188	C	LEU			4.279	34.475	48.789		40.67
ATOM	1189	ō			154	5.264	35.000	49.344		42.56
ATOM	1190	CB	LEU			1.966	34.432	49.515		30.10
MOTA	1191	CG	LEU			2.084	35.793	50.207		35.20
ATOM	1192		LEU							
ATOM	1192	CD2				0.989	36.716	49.690		37.21
	1193					1.934	35.608	51.715		33.07
ATOM		N	THR			3.963	34.610	47.499		37.82
ATOM	1195	CA	THR			4.728	35.449	46.596		38.44
MOTA	1196	C	THR			3.934	36.730	46.389		41.52
ATOM	1197	0	THR			2.738	36.775	46.674		43.95
ATOM	1198	CB	THR			5.041	34.814	45.230		36.99
MOTA	1199	OG1				3.886	34.281	44.584		32.59
ATOM	1200	CG2	THR			6.133	33.790	45.404		18.24
MOTA	1201	Ŋ	TYR			4.563	37.768	45.892	1.00	33.87
MOTA	1202	CA	TYR			3.835	39.003	45.683	1.00	32.49
ATOM	1203	C	TYR	A	156	4.509	39.922	44.717	1.00	37.91
MOTA	1204	0	TYR	A	156	5.725	39.940	44.562	1.00	39.04
ATOM	1205	CB	TYR	A	156	3.534	39.795	46.983	1.00	31.16
MOTA	1206	CG	TYR	Α	156	4.642	40.731	47.471	1.00	28.94
ATOM	1207	CD1	TYR	Α	156	4.817	42.021	46.969	1.00	30.33
ATOM	1208	CD2	TYR	A	156	5.525	40.303	48.465	1.00	30.43
ATOM	1209	CE1	TYR	Α	156	5.829	42.853	47.459	1.00	36.89
ATOM	1210	CE2	TYR	Α	156	6.553	41.104	48.960	1.00	31.47
ATOM	1211	CZ	TYR .	Α	156	6.690	42.396	48.462	1.00	43.34
MOTA	1212	OH	TYR	Α	156	7.701	43.180	48.956	1.00	36.86
ATOM	1213	N	THR	Α	157	3.657	40.689	44.101		36.75
ATOM	1214	CA	THR	Α	157	4.036	41.691	43.171	1.00	38.49
MOTA	1215	С	THR			3.346	42.942	43.611		42.61
ATOM	1216	0	THR			2.228	42.913	44.143		38.45
MOTA	1217	CB	THR			3.631	41.316	41.751		39.73
ATOM	1218		THR			2.380	40.655	41.803		55.71
ATOM	1219	CG2				4.680	40.370	41.212		26.71
ATOM	1220	N	ALA			4.037	44.025	43.404		41.36
ATOM	1221	CA	ALA			3.488	45.273	43.789		41.08
ATOM	1222	C	ALA			3.869	46.401	42.839		50.77
ATOM	1223	ō	ALA			4.919	46.390	42.033		53.47
ATOM	1224	CB	ALA			3.910	45.570	45.212		39.87
ATOM	1225	N	GLU			2.974	45.376	42.788		
ATOM	1225	CA								43.90
ATOM	1227	CA	GLU			3.107	48.604	42.023		42.27
ATOM	1227	0	GLU			2.451	49.705	42.843		42.17
WI OU	1660	V	GHO	W	エコカ	1.257	49.630	43.227	1.00	41.00



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	MOTA	3059	N	LEU	A	390		22.3	74	27.059	71.172		11.37
	MOTA	3060	CA	LEU	Α	390		23.1	40	26.650	69.998	1.00	9.78
	ATOM	3061	С	LEU	Α	390		24.6	51	26.539	70.251	1.00	19.70
	ATOM	3062	0	LEU	Α	390		25.3	05	25.609	69.745	1.00	18.74
5	ATOM	3063	СВ	LEU				22.8		27.525	68.764	1.00	9.94
,				LEU				21.4		27.590	68.367		14.32
	ATOM	3064	CG										14.04
	ATOM	3065		LEU				21.1		28.632	67.257		
	MOTA	3066	CDS	LEU				20.9		26.209	67.923		14.70
	ATOM	3067	N	PHE	Α	391		25.2		27.490	71.026		12.66
10	ATOM	3068	CA	PHE	Α	391		26.6	35	27.538	71.333	1.00	13.86
	MOTA	3069	С	PHE	Α	391		27.0	53	26.343	72.147	1.00	17.87
	ATOM	3070	ō	PHE				28.1		25.733	71.983	1.00	18.52
	ATOM	3071	СВ	PHE				26.9		28.806	72,105		14.47
													18.51
1.5	ATOM	3072	CG	PHE				28.4		29.179	72.101		
15	MOTA	3073		PHE				29.2		28.996	70.973		18.55
	MOTA	3074	CD2	PHE	А	391		29.0	30	29.748	73.233		18.59
	ATOM	3075	CE1	PHE	Α	391		30.5	71	29.402	70.966	1.00	15.73
	MOTA	3076	CE2	PHE	Α	391		30.3	73	30.137	73.252	1.00	18.49
	ATOM	3077	CZ	PHE				31.1	48	29.954	72.109	1.00	15.63
20	ATOM	3078	N	TYR				26.1		26.008	73.039		16.91
20		3079	CA	TYR				26.3		24.893	73.944		17.78
	ATOM												
	ATOM	3080	C	TYR				26.2		23.570	73.175		19.46
	ATOM	3081	0	TYR				27.0		22.666	73.388		18.21
	MOTA	3082	CB	TYR	Α	392		25.2	43	25.000	75.049	1.00	15.50
25	MOTA	3083	CG	TYR	Α	392		24.9	28	23.688	75.736	1.00	20.94
	ATOM	3084	CD1	TYR	Α	392		25.8	49	23.106	76.609	1.00	24.90
	ATOM	3085	CD2	TYR	Α	392		23.7	115	23.034	75.528	1.00	21.37
	MOTA	3086		TYR				25.5	96	21.899	77.260		23.89
	ATOM	3087	CE2	TYR				23.4		21.821	76.162		24.11
30	ATOM	3088	CZ	TYR				24.3		21.256	77.020		28.03
50													
	ATOM	3089	OH	TYR				24.1		20.087	77.665		20.09
	ATOM	3090	N	LEU				25.3		23.456	72.271		14.83
	ATOM	3091	CA	LEU				25.2		22.267	71.440		15.47
	ATOM	3092	С	LEU				26.4	132	22.122	70.544	1.00	20.32
35	ATOM	3093	0	LEU	Α	393		26.8	67	21.005	70.304	1.00	21.36
	ATOM	3094	CB	LEU	Α	393		23.9	61	22,344	70.508	1.00	16.00
	ATOM	3095	CG	LEU	Α	393		22.6	38	22.027	71.223	1.00	18.37
	ATOM	3096	CD1	LEU				21.4		22.392	70.347	1.00	15.16
	ATOM	3097		LEU				22.5		20.601	71.795		17.06
40	MOTA	3098	N	GLU -				26.9		23.255	70.015		16.00
••		3099					•						
	MOTA		CA	GLU				28.1		23.298	69.160		13.58
	ATOM	3100	С	GLU				29.2		22.719	69.931		17.05
	MOTA	3101	٥	GLU				30.0		21.889	69.453		15.79
	MOTA	3102	CB	GLU	А	394		28.4	34	24.745	68.776		17.59
45	MOTA	3103	CG	GLU	Α	394		29.9	03	24.871	68.320	1.00	23.24
	ATOM	3104	CD	GLU	Α	394		30.3	332	26.300	68.152	1.00	32.12
	ATOM	3105	OE1	GLU	Α	394		29.7	709	27.146	67.532	1.00	23.57
	ATOM	3106	OE2	GLU				31.4		26.547	68.714		26.27
	ATOM	3107	N	GLN				29.4		23.127	71.183		16.99
50	ATOM	3108	CA	GLN				30.4		22.610	72.030		17.56
50													
		3109	С	GLN				30.2		21.127	72.360		23.89
	ATOM	3110	0	GLN				31.2		20.359	72.421		24.66
	ATOM	3111	CB	GLN	A	395		30.7	725	23.461	73.318	1.00	17.71
	MOTA	3112	CG	GLN	A	395		31.1	195	24.888	72.918	1.00	17.45
55	MOTA	3113	CD	GLN	Α	395		31.3	354	25.851	74.081	1.00	21.98
	ATOM	3114	OE1	GLN				30.9		25.584	75.224		16.80
	MOTA	3115	NE2					31.9		26.985	73.776		16.78
	ATOM	3116	N	LEU				29.0		20.706	72.588		21.86
	ATOM												
60		3117	CA	LEU				28.		19.330	72.932		20.27
UU	ATOM	3118	C	LEU				28.9		18.387	71.744		22.03
	ATOM	3119	0	LEU				29.3		17.260	71.857		25.07
	ATOM	3120	CB	LEU				27.3		19.276	73.441		18.56
	MOTA	3121	CG	LEU				26.8		17.960	73.994		22.66
	MOTA	3122	CD1	LEU	A	396		27.4	193	17.780	75.354	1.00	25.52

	3.0004	2102	0.00						
	MOTA	3123		LEU A 396		25.340	18.045	74.179	1.00 17.79
	MOTA	3124	N	LEU A 397	1 :	28.575	18.831	70.579	1.00 15.28
	MOTA	3125	CA	LEU A 397	1 :	28.603	17.939	69.433	1.00 16.80
	ATOM	3126	С	LEU A 39°	7 :	29.846	17.946	68.565	1.00 26.85
5	ATOM	3127	0	LEU A 39		29.864	17.399	67.458	1.00 29.08
	ATOM	3128	СВ	LEU A 39		27.371	18.242	68.552	1.00 15.51
	ATOM	3129	CG	LEU A 39		26.013	18.018	69.261	1.00 20.96
		3130		TEO Y 33.					
	ATOM					24.874	18.717	68.501	1.00 19.35
10	ATOM	3131		LEU A 39		25.692	16.536	69.461	1.00 19.12
10	ATOM	3132	N	GLY A 39		30.901	18.598	68.985	1.00 24.55
	MOTA	3133	CA	GLY A 39	3 .	32.006	18.516	68.076	1.00 27.19
	ATOM	3134	С	GLY A 39	3 .	32.648	19.794	67.598	1.00 29.41
	ATOM	3135	0	GLY A 39	3 .	33.743	19.713	67.048	1.00 30.13
	MOTA	3136	N	GLY A 39	€ .	32.020	20.951	67.752	1.00 19.25
15	MOTA	3137	CA	GLY A 39		32.700	22.143	67.291	1.00 16.50
	ATOM	3138	С	GLY A 39		31.937	22.850	66.212	1.00 15.03
	ATOM	3139	ō	GLY A 39		30.976	22.315	65.694	1.00 17.49
	ATOM	3140	N	PRO A 40		32.397	24.045	65.870	1.00 21.52
		3141							
20	ATOM		CA	PRO A 40		31.758	24.918	64.909	1.00 21.69
20	ATOM	3142	С	PRO A 40		31.599	24.312	63.552	1.00 29.85
	ATOM	3143	0	PRO A 40		30.540	24.433	62.921	1.00 24.28
	ATOM	3144	CB	PRO A 40	0	32.574	26.210	64.802	1.00 21.33
	MOTA	3145	CG	PRO A 40	)	33.868	25.949	65.552	1.00 27.07
	ATOM	3146	CD	PRO A 40	)	33.698	24.635	66.306	1.00 25.67
25	ATOM	3147	N	GLU A 40	l	32.679	23.674	63.128	1.00 28.84
	ATOM	3148	CA	GLU A 40		32.630	23.048	61.831	1.00 30.42
	ATOM	3149	С	GLU A 40		31.491	22.055	61.764	1.00 22.63
	ATOM	3150	ō	GLU A 40		30.664	22.034	60.872	1.00 21.35
	ATOM	3151	CB	GLU A 40		33.915	22.247	61.648	1.00 21.33
30	ATOM	3152	CG	GLU A 40		35.125	23.160	61.445	1.00 33.33
50		3153							
	MOTA		CD	GLU A 40		35.978	22.574	60.355	1.00100.00
	MOTA	3154		GLU A 40		35.711	21.486	59.851	1.00100.00
	MOTA	3155	OE2			37.013	23.329	60.026	1.00100.00
26	MOTA	3156	N	ILE A 40	2	31.484	21.185	62.731	1.00 20.44
35	ATOM	3157	CA	ILE A 40:	2	30.481	20.165	62.766	1.00 21.27
	MOTA	3158	С	ILE A 40:	2	29.082	20.761	62.895	1.00 26.84
	ATOM	3159	0	ILE A 40	2 .	28.142	20.366	62.199	1.00 18.68
	ATOM	3160	CB	ILE A 40:	2	30.819	19.218	63.904	1.00 24.03
	ATOM	3161	CG1	ILE A 40		31.974	18.299	63.503	1.00 23.45
40	ATOM	3162		ILE A 40		29.587	18.421	64.334	1.00 28.69
	ATOM	3163		ILE A 40		32.370	17.396	64.665	1.00 26.57
	ATOM	3164	N	PHE A 40		28.948	21.745	63.773	1.00 21.88
	ATOM	3165	CA	PHE A 40					
						27.646	22.325	63.962	1.00 20.25
45	ATOM	3166	C	PHE A 40		27.149	23.152	62.802	1.00 20.90
73	ATOM	3167	0	PHE A 40		25.951	23.246	62.510	1.00 21.88
	MOTA	3168	CB	PHE A 40		27.555	23.073	65.298	1.00 22.18
	MOTA	3169	CG	PHE A 40		26.121	23.247	65.764	1.00 20.23
	ATOM	3170	CD1	PHE A 40:	3	25.411	22.189	66.331	1.00 21.99
	ATOM	3171	CD2	PHE A 40	3	25.478	24.479	65.660	1.00 25.50
50	ATOM	3172	CE1	PHE A 40	3	24.106	22.345	66.801	1.00 23.07
.*	ATOM .	3173		PHE A 40		24.156	24.651	66.081	1.00 25.44
	ATOM	3174	CZ	PHE A 40		23.472	23.581	66.661	1.00 22.55
	MOTA	3175	N	LEU A 40		28.076	23.804	62.121	1.00 17.83
	ATOM	3176	CA	LEU A 40		27.664	24.596	60.973	1.00 17.93
55	ATOM	3177	C	LEU A 40					
J						27.136	23.666	59.868	1.00 24.59
	MOTA	3178	0	LEU A 40		26,297	24.031	59.044	1.00 22.86
	ATOM	3179	CB	LEU A 40		28.808	25.526	60.504	1.00 17.59
	MOTA	3180	CG	LEU A 40		28.952	26.728	61.425	1.00 19.68
<b>~</b> 0	MOTA	3181		LEU A 40		30.297	27.424	61.239	1.00 19.60
60	MOTA	3182	CD2	LEU A 40	4	27.873	27.719	61.047	1.00 20.62
	ATOM	3183	N	GLY A 40.		27.630	22.418	59.852	1.00 21.24
	ATOM	3184	CA	GLY A 40		27.164	21.461	58.868	1.00 18.72
	MOTA	3185	c	GLY A 40		25.691	21.148	59.148	1.00 23.90
	ATOM	3186	Õ	GLY A 40		24.853	21.054	58.240	1.00 24.54
	ALON	3100	•	OH1 W 40:	,	4.000	21.034	30.240	1.00 24.34

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	ATOM	3187	N	PHE A		25.363	20.987	60.438	1.00 18.59
	ATOM	3188	CA	PHE A	406	23.979	20.734	60.824	1.00 18.47
	ATOM	3189	С	PHE A		23.165	21.964	60.367	1.00 23.08
	ATOM	3190		PHE A		22.150	21.917	59.663	1.00 20.15
5			0						
J	ATOM	3191	CB	PHE A		23.863	20.473	62.348	1.00 17.79
	ATOM	3192	CG	PHE A	406	22.470	20.814	62.819	1.00 19.42
	ATOM	3193	CD1	PHE A	406	21.400	19.986	62.482	1.00 20.66
	ATOM	3194		PHE A		22.213	21.990	63.526	1.00 20.37
									1.00 22.34
10	MOTA	3195		PHE A		20.099	20.274	62.898	
10	MOTA	3196	CE2	PHE A	406	20.921	22.313	63.938	1.00 24.74
	MOTA	3197	cz	PHE A	406	19.874	21.441	63.634	1.00 23.87
	MOTA	3198	N	LEU A	407	23.674	23.139	60.702	1.00 22.33
	ATOM	3199	CA	LEU A		22.979	24.352	60.309	1.00 26.37
			c .	LEU A				58.819	1.00 24.88
1.5	MOTA	3200				22.690	24.501		
15	ATOM	3201	0	LEU A		21.588	24.869	58.409	1.00 21.77
	ATOM	3202	CB	LEU A	407	23.742	25.574	60.831	1.00 30.18
	ATOM	3203	CG	LEU A	407	22.859	26.773	61.112	1.00 40.95
	ATOM	3204	CD1	LEU A	407	23.559	27.710	62.083	1.00 43.78
	ATOM	3205		LEU A		22.622	27.498	59.806	1.00 47.26
20									
20	ATOM	3206	N	LYS A		23.679	24.256	57.981	1.00 21.87
	MOTA	3207	CA	LYS A	408	23.425	24.378	56.555	1.00 20.93
	ATOM	3208	С	LYS A	408	22.386	23.351	56.080	1.00 19.73
	ATOM	3209	0	LYS A		21.502	23.596	55.265	1.00 18.85
	ATOM	3210	СВ	LYS A		24.715	24.325	55.746	1.00 22.33
25									
25	ATOM	3211	CG	LYS A		24.420	24.240	54.262	1.00 33.19
	ATOM	3212	CD	LYS A		25.621	24.508	53.374	1.00 24.21
	ATOM	3213	CE	LYS A	408	26.812	25.035	54.131	1.00 44.20
	ATOM	3214	NZ	LYS A	408	27.904	25.399	53.217	1.00 61.63
	ATOM	3215	N	ALA A		22.458	22.161	56.625	1.00 21.49
30	ATOM	3216	CA	ALA A		21.496	21.116	56.278	1.00 23.64
50									
	ATOM	3217	С	ALA A		20.037	21.458	56.689	1.00 28.20
	MOTA	3218	0	ALA A	409	19.059	21.204	55.968	1.00 23.25
	ATOM	3219	CB	ALA A	409	21.936	19.821	56.974	1.00 23.41
	ATOM	3220	N	TYR A	410	19.921	22.030	57.900	1.00 23.19
35	ATOM	3221	CA	TYR A		18.668	22.463	58,495	1.00 18.98
0.5	MOTA	3222							
			C	TYR A		18.014	23.507	57.594	1.00 18.81
	MOTA	3223	0	TYR A		16.832	23.464	57.298	1.00 19.59
	ATOM	3224	CB	TYR A	410	18.973	22.980	59.910	1.00 19.89
	MOTA	3225	CG	TYR A	410	17.947	23.924	60.516	1.00 20.57
40	MOTA	3226	CD1	TYR A	410	16.715	23.463	60.981	1.00 22.20
	ATOM	3227		TYR A		18.219	25.286	60.649	1.00 21.16
	ATOM	3228	CEI			15.767	24.320	61.551	1.00 17.85
		3229							
	MOTA			TYR A		17.289	26.163	61.213	1.00 22.58
	MOTA	3230	CZ	TYR A		16.064	25.679	61.682	1.00 25.33
45	ATOM	3231	OH	TYR A	410	15,182	26.528	62.315	1.00 20.84
	ATOM	3232	N	VAL A	411	18.809	24.459	57.147	1.00 17.01
	MOTA	3233	CA	VAL A	411	18.378	25.520		1.00 20.36
	ATOM	3234	c	VAL A		17.876	24.946	54.936	1.00 25.04
60	ATOM	3235	0	VAL A		16.859	25.377	54.394	1.00 22.50
50	MOTA	3236	CB	VAL A	411	19.533	26.493	55.937	1.00 24.82
	ATOM	3237	CG1	VAL A	411	19.220	27.380	54.724	1.00 21.10
	ATOM	3238	CG2	VAL A	411	19.920	27.333	57.163	1.00 25.82
	ATOM	3239	N	GLU A		18.616	23.952	54.443	1.00 24.87
								53.202	1.00 24.91
55	ATOM	3240	CA	GLU A		18.264	23.283		
55	ATOM	3241	С	GLU A		16.960	22.532	53.366	1.00 24.56
	ATOM	3242	0	GLU A	412	16.045	22.612	52.555	1.00 26.86
	ATOM	3243	CB	GLU A	412	19.330	22.211	52.913	1.00 28.91
	ATOM	3244	CG	GLU A		20.206	22.405	51.660	1.00 51.34
	ATOM	3245	CD	GLU A		21.671	22.089	51.908	1.00100.00
60									
OO.	ATOM	3246		GLU A		22.243	22.331	52.963	1.00100.00
	ATOM	3247		GLU A		22.274	21.541	50.874	1.00100.00
	MOTA	3248	N	LYS A	413	16.909	21.757	54.442	1.00 19.78
	ATOM	3249	CA	LYS A	413	15.755	20.940	54.747	1.00 15.53
	ATOM	3250	С	LYS A		14.484	21.718	54.892	1.00 22.00
			_	2.5 A	113	13.303		- 1.072	

	ATOM	3251	0	LYS A 4	13	13.464	21.272	54.409	1.00 23.41
	MOTA	3252	СВ	LYS A 4		16.020	20.156	56.008	1.00 17.04
	MOTA	3253	CG	LYS A 4		14.754	19.602	56.629	1.00 26.97
	MOTA	3254	CD	LYS A 4		14.225	18.351	55.955	1.00 37.17
5	MOTA	3255	CE	LYS A 4	13	13.553	17.352	56.893	1.00 56.50
	ATOM	3256	NZ	LYS A 4	13	13.126	16.109	56.223	1.00 80.78
	MOTA	3257	N	PHE A 4		14.543	22.888	55.532	1.00 19.76
	ATOM	3258	CA	PHE A 4		13.366	23.700	55.808	1.00 17.00
10	MOTA	3259	С	PHE A 4		13.192	24.945	54.985	1.00 21.55
10	ATOM	3260	0	PHE A 4		12.329	25.748	55.303	1.00 17.11
	MOTA	3261	CB	PHE A 4		13.219	24.035	57.303	1.00 16.42
	MOTA	3262	CG	PHE A 4		13.047	22.800	58.122	1.00 15.55
	ATOM	3263		PHE A 4		11.894	22.029	57.979	1.00 19.53
15	MOTA	3264		PHE A 4		14.024	22.368	59.015	1.00 20.06
13	ATOM	3265		PHE A 4		11.709	20.868	58.729	1.00 18.22
	ATOM ATOM	3266 3267	CZ	PHE A 4		13.861	21.205 20.456	59.771 59.627	1.00 21.10
	ATOM	3268	N	SER A 4		12.695 13.972	25.111	53.928	1.00 19.80
	ATOM	3269	CA	SER A 4		13.807	26.273	53.044	1.00 23.12
20	ATOM	3270	C	SER A 4		12.380	26.434	52.548	1.00 23.12
	ATOM	3271	Ō	SER A 4		11.775	25.451	52.138	1.00 22.71
	ATOM	3272	СВ	SER A 4		14.763	26.214	51.858	1.00 23.04
	ATOM	3273	OG	SER A 4		16.054	26.591	52.319	1.00 31.15
	MOTA	3274	N	TYR A 4	16	11.860	27.670	52.600	1.00 21.68
25	ATOM	3275	CA	TYR A 4	16	10.506	28.036	52.165	1.00 22.03
	ATOM	3276	С	TYR A 4	16	9.401	27.514	53.056	1.00 22.90
	MOTA	3277	0	TYR A 4	16	8.239	27.556	52.681	1.00 19.44
	MOTA	3278	CB	TYR A 4		10.181	27.732	50.669	1.00 21.41
20	ATOM	3279	CG	TYR A 4		11.390	28.011	49.812	1.00 21.01
30	MOTA	3280	CD1			12.232	27.003	49.339	1.00 22.57
	ATOM	3281		TYR A 4		11.686	29.339	49.509	1.00 20.93
	ATOM	3282		TYR A 4		13.354	27.305	48.566	1.00 19.33
	ATOM	3283		TYR A 4		12.792	29.665	48.729	1.00 23.16
35	ATOM ATOM	3284 3285	CZ OH	TYR A 4		13.628	28.643	48.271 47.491	1.00 32.30 1.00 25.33
<i>5</i> <b>5</b>	ATOM	3286	N	LYS A 4		14.715 9.747	28.959 27.012	54.230	1.00 23.33
	ATOM	3287	CA	LYS A 4		8.749	26.482	55.127	1.00 20.82
	ATOM	3288	C	LYS A 4		8.702	27.284	56.408	1.00 20.61
	ATOM	3289	ō	LYS A 4		9.629	28.038	56.671	1.00 18.79
40	ATOM	3290	СВ	LYS A 4		9.115	25.041	55.481	1.00 22.26
	MOTA	3291	CG	LYS A 4	17	9.094	24.078	54.266	1.00 29.52
	MOTA	3292	CD	LYS A 4	17	7.999	24.355	53.237	1.00 72.37
	ATOM	3293	CE	LYS A 4	17	8.204	23.679	51.876	1.00100.00
	MOTA	3294	NZ	LYS A 4		7.124	23.931	50.895	1.00100.00
45	ATOM	3295	N	SER A 4		7.645	27.068	57.177	1.00 17.88
	ATOM	3296	CA	SER A		7.429	27.702	58.478	1.00 19.91
	ATOM	3297	c	SER A		7.410	26.538	59.459	1.00 23.93
	ATOM ATOM	3298 3299	O	SER A		6.660	25.601	59.227	1.00 21.09
50	MOTA	3300	CB OG	SER A 4		6.139 6.279	28.495 29.520	58.451 57.494	1.00 12.45
50	ATOM	3301	N	ILE A		8.240	26.529	60.516	1.00 17.13
	ATOM	3302	CA	ILE A		8.323	25.353	61.382	1.00 12.23
	ATOM	3303	C	ILE A		8.330	25.695	62.841	1.00 16.49
	MOTA	3304	0	ILE A		8.334	26.875	63.219	1.00 14.48
55	MOTA	3305	СВ	ILE A		9.662	24.641	61.097	1.00 18.50
	MOTA	3306	CG1	ILE A		10.782	25.649	61.392	1.00 18.34
	MOTA	3307	CG2	ILE A	119	9.782	24.271	59.611	1.00 14.45
	ATOM	3308		ILE A		12.163	25.028	61.473	1.00 22.79
<b>CO</b>	MOTA	3309	N	THR A		8.320	24.635	63.644	1.00 16.31
60	MOTA	3310	CA	THR A		8.281	24.810	65.083	1.00 14.71
	ATOM	3311	С	THR A		9.545	24.290	65.714	1.00 16.25
	ATOM	3312	0	THR A		10.346	23.636	65.077	1.00 17.31
	ATOM	3313	CB	THR A		7.118	24.004	65.697	1.00 17.59
	MOTA	3314	OGI	THR A	120	7.437	22.645	65.519	1.00 17.59

	ATOM	3315	CG2	THR I	Ą	420	5.794	24.260	65.010	1.00	16.45
	ATOM	3316	N	THR I	A	421	9.679	24.540	67.010	1.00	15.19
	ATOM	3317	CA	THR	A	421	10.782	24.047	67.818	1.00	15.49
	ATOM	3318	С	THR .	Α	421	10.930	22.520	67.618	1.00	21.17
5	ATOM	3319	0	THR .			12.041	22.044	67.401	1.00	18.91
_	ATOM	3320	CB	THR			10.564	24.437	69.309		10.87
	MOTA	3321		THR .			10.618	25.851	69.383		15.99
	ATOM	3322		THR .			11.691	23.868	70.170	_	11.46
	ATOM	3323	N	ASP .			9.829	21.736	67.673		18.70
10	ATOM	3324	CA	ASP .			9.885	20.262	67.467		16.03
10	ATOM	3325	Ç	ASP .			10.469	19.867	66.107		16.08
	MOTA	3326	Ô	ASP .		-	11.273	18.932	65.958		16.68
		3327		ASP .			8.523	19.568	67.581		16.64
	ATOM		CB								
15	ATOM	3328	CG	ASP .			8.719	18.079	67.574		26.85
IJ	ATOM	3329		ASP .			9.568	17.580	68.286		23.44
	ATOM	3330		ASP .			7.924	17.366	66.787		23.32
	ATOM	3331	N	ASP .			10.069	20.575	65.060		17.50
	ATOM	3332	CA	ASP .			10.654	20.224	63.757		18.18
20	ATOM	3333	С	ASP .			12.148	20.442	63.826		17.70
20	ATOM	3334	0	ASP .			12.922	19.645	63.316		15.95
	ATOM	3335	CB	ASP .			10.099	21.075	62.613		17.77
	ATOM	3336	CG	ASP /	A	423	8.614	20.972	62.510	1.00	20.51
	MOTA	3337		ASP .			8.042	19.936	62.718	1.00	29.77
25	ATOM	3338	OD2	ASP A	A	423	8.016	22.095	62.226	1.00	18.32
25	MOTA	3339	И	TRP .	A	424	12.559	21.545	64.459	1.00	12.60
	ATOM	3340	CA	TRP A			13.979	21.793	64.555		14.79
	MOTA	3341	С	TRP .	A	424	14.690	20.684	65.330	1.00	19.67
	ATOM	3342	0	TRP .			15.731	20.154	64.939	1.00	16.84
••	ATOM	3343	CB	TRP .	A	424	14.187	23.134	65.283	1.00	14.84
30	ATOM	3344	CG	TRP .	A	424	15.603	23.332	65.711	1.00	13.71
	ATOM	3345	CD1				16.594	23.830	64.937	1.00	15.42
	MOTA	3346	CD2	TRP :	Α	424	16.185	23.060	67.002	1.00	13.68
	ATOM	3347	NE1	TRP .	A	424	17.765	23.853	65.640	1.00	14.21
a =	MOTA	3348	CE2	TRP .	Α	424	17.558	23.383	66.909	1.00	13.75
35	ATOM	3349	CE3	TRP .	A	424	15.684	22.576	68.210	1.00	16.53
	ATOM	3350	CZ2	TRP .	A	424	18.436	23.247	67.983	1.00	13.89
	.ATOM	3351	CZ3	TRP A			16.564	22.434	69.288	1.00	16.24
	ATOM	3352	CH2	TRP .	A.	424	17.919	22.786	69.175	1.00	15.55
40	ATOM	3353	N	LYS .	A	425	14.139	20.328	66.480	1.00	13.83
40	ATOM	3354	CA	LYS A	A	425	14.778	19.337	67.319	1.00	14.35
	ATOM	3355	С	LYS .	Ą	425	14.705	17.914	66.753	1.00	19.43
	ATOM	3356	0	LYS .	A	425	15.619	17.089	66.910	1.00	16.20
	ATOM	3357	CB	LYS .	Α	425	14.262	19.441	68.735	1.00	13.53
	ATOM	3358	CG	LYS A	A	425	14.912	18.488	69.720	1.00	14.17
45	MOTA	3359	CD	LYS .	Α	425	14.289	18.698	71.085	1.00	14.61
	MOTA	3360	CE	LYS .	A	425	14.214	17.413	71.872	1.00	33.75
	MOTA	3361	NZ	LYS .	Α	425	12.961	16.707	71.574	1.00	28.69
	ATOM	3362	N	ASP .	Α	426	13.591	17.633	66.093	1.00	17.34
	MOTA	3363	CA	ASP .	A	426	13.430	16.341	65.480	1.00	15.98
50	ATOM	3364	С	ASP .	Ą	426	14.524	16.256	64.383	1.00	23.28
	MOTA	3365	0	ASP .	Α	426	15.177	15.246	64.128	1.00	25.50
	MOTA	3366	CB	ASP .	A	426	11.987	16.225	64.918	1.00	13.29
	ATOM	3367	CG	ASP .	Α	426	10.984	15.900	65.989	1.00	14.86
_	MOTA	3368	OD1	ASP .	Α	426	11.296	15.712	67.147	1.00	19.08
55	ATOM	3369	OD2	ASP .	A	426	9.746	15.852	65.579	1.00	18.33
	ATOM	3370	N	PHE .			14.770	17.354	63.684		20.60
	ATOM	3371	CA	PHE .			15.789	17.331	62.633		20.61
	ATOM	3372	С	PHE			17.203	17.172	63.165		26.34
	ATOM	3373	0	PHE			18.056	16.476	62.592		22.98
60	ATOM	3374	CB	PHE			15.712	18.535	61.679		20.77
	ATOM	3375	CG	PHE .			16.772	18.432	60.611		24.06
	ATOM	3376		PHE			16.747	17.398	59.674		27.11
	ATOM	3377		PHE			17.815	19.355	60.549		24.52
	ATOM	3378		PHE .			17.726	17.312	58.685		27.68
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	MOTA	3379	CE2	PHE A 4	127	18.801	19.284	59.565	1.00 28.65
	MOTA	3380	CZ	PHE A 4	127	18.756	18.254	58.629	1.00 24.74
	ATOM	3381	N	LEU A 4	128	17.417	17.848	64.291	1.00 22.50
	ATOM	3382	CA	LEU A 4	128	18.686	17.827	64.979	1.00 24.10
5	ATOM	3383	С	LEU A 4	128	19.053	16.391	65.339	1.00 22.01
	ATOM	3384	0	LEU A 4	128	20.183	15.960	65.123	1.00 23.99
	MOTA	3385	CB	LEU A 4	128	18.685	18.806	66.186	1.00 23.18
	MOTA	3386	CG	LEU A		19.949	18.790	67.054	1.00 26.21
	ATOM	3387	CD1	LEU A		21.120	19.538	66.421	1.00 25.09
10	MOTA	3388		LEU A		19.659	19.334	68.459	1.00 21.07
	ATOM	3389	N	TYR A		18.087	15.650	65.866	1.00 16.35
	ATOM	3390	CA	TYR A		18.278	14.259	66.241	1.00 15.82
	ATOM	3391	С	TYR A		18,482	13.390	65.019	1.00 20.80
	ATOM	3392	0	TYR A		19.216	12.416	64.997	1.00 21.02
15	MOTA	3393	CB	TYR A		17.037	13.759	66.940	1.00 14.93
	ATOM	3394	CG	TYR A		17.232	13.841	68.426	1.00 19.52
	ATOM	3395		TYR A		16.999	15.039	69.104	1.00 18.07
	MOTA	3396		TYR A		17.667	12.710	69.121	1.00 17.20
	ATOM	3397		TYR A		17.183	15.108	70.484	1.00 14.78
20	ATOM	3398	CE2	TYR A		17.850	12.752	70.496	1.00 15.85
	ATOM	3399	CZ	TYR A		17.615	13.961	71.157	1.00 26.56
	ATOM	3400	OH	TYR A		17.807	14.009	72.508	1.00 23.93
	MOTA	3401	N	SER A		17.839	13.785	63.955	1.00 23.93
	ATOM	3402	CA	SER A		17.039	13.763	62.735	1.00 20.34
25	ATOM	3403	C	SER A		19.392	13.282	62.136	1.00 28.86
	ATOM	3404	ŏ	SER A		20.133	12.347	61.797	1.00 25.80
	ATOM	3405	СВ	SER A		16.843	13.486	61.845	1.00 23.64
	ATOM	3406	OG	SER A		16.960	12.766	60.657	1.00 32.88
	ATOM	3407	N	TYR A		19.792	14.556	62.021	1.00 23.08
30	ATOM	3408	CA	TYR A		21.104	14.862	61.497	1.00 23.26
-	ATOM	3409	c	TYR A		22.209	14.166	62.288	1.00 23.20
	ATOM	3410	ā	TYR A		23.152	13.580	61.747	1.00 27.84
	ATOM	3411	СВ	TYR A		21.392	16.372	61.476	1.00 27.04
	ATOM	3412	CG	TYR A		22.660	16.758	60.741	1.00 22.23
35	ATOM	3413		TYR A		22.665	16.738	59.365	1.00 25.21
	MOTA	3414		TYR A		23.864	16.920	61.433	1.00 28.30
	ATOM	3415		TYR A		23.836	17.354	58.692	1.00 28.30
	ATOM	3416		TYR A		25.045	17.277	60.777	1.00 29.03
	ATOM	3417	CZ	TYR A		25.032	17.498	59.401	1.00 33.73
40	ATOM	3418	ОН	TYR A		26.201	17.881	58.802	1.00 30.59
	ATOM	3419	N	PHE A		22.078	14.272	63.608	1.00 23.42
	ATOM	3420	CA	PHE A		23.039	13.735	64.556	1.00 23.42
	ATOM	3421	C	PHE A		22.659	12.334	65.001	1.00 27.48
	MOTA	3422	ō	PHE A		22.824	11.964	66.168	1.00 20.81
45	ATOM	3423	СВ	PHE A		23.211	14.715	65.751	1.00 20.76
	ATOM	3424	CG	PHE A		24.035	15.918	65.348	1.00 21.62
	ATOM	3425		PHE A		25.364	15.674		1.00 25.75
	ATOM	3426		PHE A		23.566	17.232	65.250	1.00 22.01
	MOTA	3427		PHE A		26.202	16.708	64.619	1.00 26.06
50	MOTA	3428		PHE A		24.398	18.277	64.841	1.00 24.06
F	ATOM	3429	CZ	PHE A		25.732	18.014	64.539	1.00 22.97
	ATOM	3430	N	LYS A		22.150	11.536	64.065	1.00 30.29
	ATOM	3431	CA	LYS A		21.757	10.205	64.480	1.00 30.29
	ATOM	3432	C	LYS A		22.886	9.408	65.113	1.00 33.37
55	ATOM	3433	ō	LYS A		22.690	8.545	65.964	1.00 45.77
	MOTA	3434	СВ	LYS A		21.017	9.429		
	MOTA	3435	CG	LYS A				63.418	1.00 41.36
	ATOM	3436	CD	LYS A		21.934	9.107 9.569	62.270	1.00 42.12
	MOTA	3436		LYS A		21.340		60.951	1.00 85.11
60	ATOM	3437	CE NZ			21.770	8.690	59.784	1.00100.00
55	ATOM	3439		LYS A		21.052	8.990	58.530	1.00100.00
	ATOM		N	ASP A		24.091	9.729	64.700	1.00 38.33
	ATOM	3440	CA	ASP A		25.295	9.086	65.188	1.00 40.98
		3441	С	ASP A		25.640	9.549	66.594	1.00 42.43
	MOTA	3442	0	ASP A	134	26.508	8.979	67.241	1.00 42.35

		ATOM	3443	СВ	ASP				26.493		64.250	1.00 47.83	
		MOTA	3444	CG	ASP				26.762		64.034	1.00 73.29	
		ATOM	3445		ASP				25.948		63.601	1.00 69.13	
	5	MOTA MOTA	3446 3447	N	ASP LYS				28.007 24.987		64.314 67.068	1.00 80.31	
	,	MOTA	3448	CA	LYS				25.312		68.374	1.00 30.49	
		ATOM	3449	C	LYS				24.122		69.306	1.00 32.5	
		ATOM	3450	ō	LYS				24.181		70.217	1.00 29.2	
		ATOM	3451	СВ	LYS				26.018		68.200	1.00 30.2	0
	10	MOTA	3452	CG	LYS	A	435		27.396		67.568	1.00 19.4	
		MOTA	3453	CD			435		27.984		67.237	1.00 28.5	
		ATOM	3454	CE	LYS				29.504		67.224	1.00 36.0	
		ATOM	3455	NZ	LYS				30.078		66.281 69.083	1.00 38.0	
	15	ATOM ATOM	3456 3457	n Ca	VAL		436		23.063 21.867		69.083	1.00 36.6	
	13	ATOM	3458	c			436		22.189		71.391	1.00 39.3	
		MOTA	3459	ŏ			436		21.544		72.236	1.00 34.1	
		ATOM	3460	CB			436		20.768		69.613	1.00 44.9	
	• •	MOTA	3461	CG1	VAL	Α	436		20.016	9.971	68.355	1.00 45.7	7
	20	ATOM	3462	CG2	VAL	Α	436		21.391		69.405	1.00 48.2	
		ATOM	3463	N			437		23.205		71.670	1.00 40.6	
		ATOM	3464	CA	ASP				23.663		73.019	1.00 39.6	
		ATOM ATOM	3465 3466	С 0	ASP ASP				24.119 23.871		73.622 74.785	1.00 35.5	
	25	ATOM	3467	СВ			437		24.686		73.136	1.00 42.2	
		ATOM	3468	CG	ASP				23.976		73.303	1.00 64.0	
		ATOM	3469	OD1	ASP	Α	437		22.749		73.361	1.00 57.7	7
		MOTA	3470		ASP				24.825		73.385	1.00 89.9	
	30	ATOM	3471	N			438		24.778		72.826	1.00 33.1	
	30	MOTA	3472	CA			438		25.235		73.309	1.00 31.5	
		ATOM ATOM	3473 3474	С 0			438 438		24.012		73.521 74.571	1.00 28.6 1.00 26.7	
		MOTA	3475	СВ			438		26.289		72.371	1.00 30.5	
		ATOM	3476		VAL				26.809		72.920	1.00 27.8	
	35	MOTA	3477		VAL				27.441		72.226	1.00 29.0	
		MOTA	3478	N			439		23.179		72.494	1.00 22.6	
		ATOM	3479	CA			439		21.952		72.466	1.00 20.0	
		MOTA MOTA	3480 3481	C			439		21.118		73.675	1.00 28.0	
	40	ATOM	3482	O CB	LEU		439		20.547		74.289 71.201	1.00 31.3	
		MOTA	3483	CG			439		21.769		69.960	1.00 19.4	
		ATOM	3484		LEU				21.029		68.724	1.00 16.8	
		MOTA	3485		LEU				21.748		70.034	1.00 23.9	
	4.5	MOTA	3486	N	ASN				21.045		74.022	1.00 24.2	
	45	ATOM	3487	CA	ASN				20.242		75.165	1.00 24.8	
		ATOM	3488	C			440		20.785		76.473	1.00 29.2	_
		MOTA MOTA	3489 3490	O CB	ASN ASN				20.128		77.507 75.237	1.00 31.0	
		MOTA	3491	CG	ASN				19.842 18.971		74.066	1.00 29.3	
	50	MOTA	3492		ASN				19.138		73.451	1.00 40.1	
		ATOM	3493		ASN				18.058		73.721	1.00 28.4	
		MOTA	3494	N	GLN	Α	441	*	21.984	13.833	76.434	1.00.26.3	0
		MOTA	3495	CA			441		22.535		77.656	1.00 27.2	
	55	MOTA	3496	C			441		22.022		77.912	1.00 26.4	
	33	MOTA	3497	0			441		22.203		78.988	1.00 25.2	
· ·		MOTA MOTA	3498 3499	CB CG	GLN GLN				24.073		77.609 77.641	1.00 32.1 1.00 49.6	
		ATOM	3500	CD	GLN				26.057		76.850	1.00 45.6	
: :		ATOM	3501		GLN				26.546		76.382	1.00 76.2	
	60	MOTA	3502	NE2	GLN	Α	441		26.608		76.676	1.00 56.6	8
* *		MOTA	3503	N	VAL				21.388		76.909	1.00 21.5	
		ATOM	3504	CA	VAL				20.922		77.159	1.00 18.9	
		MOTA	3505	C	VAL				19.615		77.897	1.00 19.5	
: - :		MOTA	3506	0	VAL	A	442		18.742	16.908	77.650	1.00 21.0	2

	ATOM	3507	CB	VAL A	442	20.898	18.538	75.917	1.00 19.77
	ATOM	3508		VAL A			17.891	74.680	1.00 23.00
	ATOM	3509		VAL A		19.787	19.580	75.787	1.00 13.26
	ATOM	3510	N	ASP A		19.490	18.677	78.811	1.00 13.20
5	ATOM	3511		ASP A		18.243	18.856	79.551	1.00 16.44
_	ATOM	3512		ASP A					1.00 10.44
						17.277	19.752	78.727	
	ATOM	3513	0	ASP A		17.091	20.980	78.921	1.00 15.06
	ATOM	3514	CB	ASP A		18.611	19.494	80.901	1.00 17.40
10	ATOM	3515	CG	ASP A		17.422	19.595	81.778	1.00 21.50
10	MOTA	3516		ASP A		16.309	19.286	81.395	1.00 26.57
	MOTA	3517	OD2	ASP A		17.731	20.068	82.959	1.00 23.49
	ATOM	3518	N	TRP A		16.675	19.105	77.736	1.00 15.54
	ATOM	3519	CA	TRP A	444	15.763	19.759	76.816	1.00 16.92
	ATOM	3520	C	TRP A	444	14.641	20.468	77.546	1.00 19.29
15	MOTA	3521	0	TRP A	444	14.292	21.572	77.194	1.00 18.00
	ATOM	3522	CB	TRP A	444	15.195	18.747	75.793	1.00 13.71
	MOTA	3523	CG	TRP A		16.267	18.226	74.892	1.00 14.88
	ATOM	3524		TRP A		16.797	16.969	74.872	1.00 17.32
	ATOM	3525		TRP A		16.952	18.958	73.861	1.00 16.34
20	ATOM	3526	NE1	TRP A		17.779	16.869	73.915	1.00 14.83
	ATOM	3527		TRP A		17.880	18.063	73.255	1.00 14.05
			CE3						
	ATOM	3528		TRP A		16.896	20.295	73.415	1.00 17.06
	ATOM	3529	CZ2	TRP A		18.737	18.482	72.229	1.00 16.95
25	ATOM	3530		TRP A		17.750	20.697	72.382	1.00 16.35
25	ATOM	3531		TRP A		18.664	19.807	71.806	1.00 16.47
	ATOM	3532	N	ASN A		14.059	19.808	78.557	1.00 18.46
	ATOM	3533	CA	ASN A		12.957	20.414	79.260	1.00 17.22
	ATOM	3534	С	ASN A		13.334	21.761	79.837	1.00 20.45
30	ATOM	3535	0	ASN A		12.581	22.732	79.740	1.00 17.51
30	ATOM	3536	CB	ASN A	445	12.347	19.512	80.357	1.00 15.11
	ATOM	3537	CG	ASN A	445	11.322	20.272	81.234	1.00 46.40
	MOTA	3538	OD1	ASN A	445	11.526	20.515	82.448	1.00 39.99
	MOTA	3539	ND2	ASN A	445	10.198	20.671	80.643	1.00 26.34
	ATOM	3540	N	ALA A	446	14.504	21.791	80.484	1.00 18.70
35	ATOM	3541	CA	ALA A	446	14.918	23.022	81.091	1.00 16.75
	ATOM	3542	С	ALA A	446	15.272	24.029	80.032	1.00 21.46
	ATOM	3543	0	ALA A	446	14.765	25.172	80.030	1.00 20.55
	MOTA	3544	CB	ALA A	446	16.049	22.774	82.055	1.00 19.42
	ATOM	3545	N	TRP A		16.116	23.605	79.097	1.00 16.36
40	MOTA	3546	CA	TRP A		16.476	24.563	78.054	1.00 14.85
	ATOM	3547	C	TRP A		15.277	25.163	77.279	1.00 18.68
	ATOM	3548	ō	TRP A	-	15.246	26.365	76.985	1.00 14.03
	ATOM	3549	СВ	TRP A		17.473	23.938	77.040	1.00 17.25
	ATOM	3550	CG	TRP A					
45	ATOM	3551	CD1	TRP A		18.952	23.982	77.391	1.00 19.35
73						19.697	22.957	77.930	1.00 22.25
	ATOM	3552	CD2			19.864	25.090	77.224	1.00 16.70
	ATOM	3553		TRP A		21.007	23.356	78.105	1.00 19.46
	MOTA	3554		TRP A		21.131	24.662	77.679	1.00 18.42
50	ATOM	3555		TRP A		19.737	26.403	76.766	1.00 16.34
50	ATOM	3556		TRP A		22.241	25.512	77.625	1.00 16.76
	ATOM	3557		TRP A		20.854	27.230	76.705	1.00 14.87
	ATOM	3558	CH2	TRP A	447	22.090	26.786	77.141	1.00 14.22
	ATOM	3559	N	LEU A	448	14.275	24.336	76.899	1.00 14.96
	MOTA	3560	CA	LEU A	448	13.146	24.835	76.096	1.00 16.27
55	ATOM	3561	С	LEU A	448	11.995	25.464	76.877	1.00 17.91
	ATOM	3562	0	LEU A	448	11.332	26.404	76.398	1.00 13.49
	ATOM	3563	СВ	LEU A		12.522	23.690	75.238	1.00 16.42
	ATOM	3564	CG	LEU A		13.500	22.945	74.302	1.00 16.42
	ATOM	3565		LEU A		12.845	21.795	73.536	1.00 15.45
60	ATOM	3566		LEU A		14.163	23.901	73.336	1.00 13.83
	ATOM	3567	N	TYR A		11.733	24.874	78.048	1.00 12.87
	ATOM	3568	CA	TYR A					
	ATOM	3569				10.557	25.255	78.826	1.00 15.36
			C	TYR A		10.763	25.822	80.198	1.00 19.93
	ATOM	3570	0	TYR A	449	9.763	26.226	80.806	1.00 21.29

	MOTA	3571	СВ	TYR A 449	9.611	24.031	78.983	1.00 14.65
	ATOM	3572	CG	TYR A 449		23.315	77.667	1.00 17.69
	ATOM	3573	CD1			24.048	76.533	1.00 22.12
	ATOM						77.541	1.00 19.27
5		3574	CD2	TYR A 449		21.958		
5	ATOM	3575	CE1			23.432	75.286	1.00 21.15
	ATOM	3576	CE2	TYR A 449		21.318	76.301	1.00 18.29
	MOTA	3577	CZ	TYR A 449		22.070	75.183	1.00 25.71
	ATOM	3578	OH	TYR A 449	9.216	21.480	73.951	1.00 26.15
	ATOM	3579	N	SER A 450	11.985	25.806	80.724	1.00 15.79
10	ATOM	3580	CA	SER A 450		26.362	82.061	1.00 14.12
	ATOM	3581	С	SER A 450		27.864	82.025	1.00 16.42
	ATOM	3582	o	SER A 450		28.340	81.109	1.00 15.32
							82.938	1.00 20.04
	MOTA	3583	CB	SER A 450		25.567		
15	ATOM	3584	OG	SER A 450		24.254	83.189	1.00 16.61
15	MOTA	3585	N	PRO A 45		28.645	83.014	1.00 14.16
	MOTA	3586	CA	PRO A 45	12.287	30.052	83.032	1.00 12.96
	MOTA	3587	C	PRO A 45	13.696	30.228	83.581	1.00 15.11
	ATOM	3588	0	PRO A 45	14.347	29.259	83.997	1.00 15.64
	ATOM	3589	CB	PRO A 45	11.274	30.669	84.029	1.00 11.76
20	ATOM	3590	CG	PRO A 45		29.560	84.988	1.00 16.01
	ATOM	3591	CD	PRO A 45		28.259	84.288	1.00 15.25
	ATOM	3592	N	GLY A 452		31.481	83.586	1.00 12.85
	MOTA	3593	CA	GLY A 452		31.822	84.160	1.00 12.46
05	ATOM	3594	С	GLY A 45		31.517	83.311	1.00 17.53
25	ATOM	3595	0	GLY A 452	2 16.559	31.320	82.117	1.00 14.38
	MOTA	3596	N	LEU A 453	3 17.839	31.539	83.926	1.00 17.18
	ATOM	3597	CA	LEU A 453	3 19.054	31.268	83.196	1.00 14.53
	MOTA	3598	С	LEU A 453	3 19.087	29.819	82.762	1.00 14.71
	ATOM	3599	0	LEU A 45:		28.978	83.456	1.00 16.06
30	ATOM	3600	СВ	LEU A 453		31.588	84.031	1.00 14.09
	ATOM	3601	CG	LEU A 45		33.091	84.216	1.00 18.81
	ATOM	3602		LEU A 45:		33.253	85.247	1.00 16.98
	ATOM	3603		LEU A 453		33.761	82.919	1.00 21.45
25	MOTA	3604	N	PRO A 454		29.537	81.637	1.00 15.62
35	MOTA	3605	CA	PRO A 454		28.194	81.119	1.00 15.68
	ATOM	3606	С	PRO A 454		27.258	82.170	1.00 21.35
	ATOM	3607	0	PRO A 454	21.236	27.662	83.039	1.00 21.73
	ATOM	3608	CB	PRO A 454	20.918	28.317	79.965	1.00 16.56
	ATOM	3609	CG	PRO A 454	20.906	29.751	79.501	1.00 16.74
40	ATOM	3610	CD	PRO A 454	20.290	30.524	80.640	1.00 15.71
	ATOM	3611	N	PRO A 455		25.978	82.079	1.00 16.53
	ATOM	3612	CA	PRO A 45		24.976	83.005	1.00 16.33
	ATOM	3613	C	PRO A 455		24.834	83.016	
								1.00 25.51
45	ATOM	3614	0	PRO A 45		24.370	83.999	1.00 24.17
40	ATOM	3615	CB	PRO A 45		23.666	82.520	1.00 17.40
	ATOM	3616	CG	PRO A 455		23.888	81.094	1.00 21.81
	ATOM	3617	CD	PRO A 455		25.389	80.932	1.00 19.90
	MOTA	3618	N	ILE A 456		25.205	81.916	1.00 20.88
	MOTA	3619	CA	ILE A 456	24.262	25.117	81.810	1.00 17.40
50	ATOM	3620	С	ILE A 456		26.292	81.000	1.00 19.27
	ATOM	3621	0	ILE A 450		26.798	80.064	1.00 17.96
	ATOM	3622	CB	ILE A 456		23.737	81.316	1.00 23.45
	ATOM	3623		ILE A 450		23.543	81.456	1.00 27.66
	ATOM	3624		ILE A 450	20.173			
55						23.529	79.865	1.00 26.37
<i>J</i>	MOTA	3625		ILE A 450		22.167	80.951	1.00 35.97
	MOTA	3626	N	LYS A 45		26.772	81.383	1.00 15.81
	ATOM	3627	CA	LYS A 45		27.883	80.697	1.00 17.12
	ATOM	3628	С	LYS A 45	7 27.727	27.333	79.815	1.00 18.91
	ATOM	3629	0	LYS A 45		26.562	80.281	1.00 17.84
60	ATOM	3630	СВ	LYS A 45		28.793	81.727	1.00 16.24
	ATOM	3631	CG	LYS A 45		30.067	81.130	1.00 16.93
	ATOM	3632	CD	LYS A 45		31.062	82.227	1.00 10.77
	MOTA	3633	CE	LYS A 45		32.347	81.659	1.00 10.77
	ATOM	3634	NZ	LYS A 45	29.467	33.164	82.683	1.00 18.20

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	MOTA	3635	N	PRO A	458	27.733	27.708	78.558	1.00 15.31
	MOTA	3636	CA	PRO A		28.780	27.205	77.655	1.00 13.31
	MOTA	3637	С	PRO A		30.169	27.681	78.096	1.00 15.94
_	MOTA	3638	0	PRO A		30.341	28.456	79.036	1.00 16.37
5	MOTA	3639	СВ	PRO A		28.465	27.835	76.274	1.00 13.66
	MOTA	3640	CG	PRO A		27.036	28.364	76.363	1.00 14.88
	MOTA	3641	CD	PRO A		26.702	28.535	77.855	1.00 10.08
	ATOM	3642	N	ASN A		31.199	27.223	77.408	1.00 10.08
	ATOM	3643	CA	ASN A		32.546	27.672	77.722	1.00 17.07
10	MOTA	3644	С	ASN A		32.924	28.839	76.793	1.00 22.19
	ATOM	3645	0	ASN A		32.647	28.812	75.578	1.00 20.83
	ATOM	3646	CB	ASN A		33.580	26.559	77.455	1.00 20.83
	ATOM	3647	CG	ASN A		33.158	25.288	78.136	
	ATOM	3648		ASN A		32.952	25.278	79.347	1.00 26.10
15	MOTA	3649	ND2	ASN A	459	32.972	24.236	77.361	1.00 25.15
	ATOM	3650	N	TYR A		33.620	29.849	77.341	1.00 24.39
	MOTA	3651	CA	TYR A		34.021	30.994	76.536	1.00 13.51
	ATOM	3652	C	TYR A		35.485	31.370	76.536	1.00 14.52 1.00 16.97
	ATOM	3653	Ö	TYR A		36.003	31.442	77.802	
20	ATOM	3654	CB	TYR A		33.266	32.254	76.990	1.00 13.34 1.00 12.53
	ATOM	3655	CG	TYR A		31.764	32.129		
	ATOM	3656	CD1	TYR A		31.704	31.553	76.980 78.046	1.00 13.07
	ATOM	3657		TYR A		31.070	32.584		1.00 17.79
	ATOM	3658		TYR A		29.677	31.450	75.880	1.00 12.08 1.00 16.54
25	ATOM	3659	CE2	TYR A		29.654	32.477	78.049 75.861	1.00 18.34
	ATOM	3660	CZ	TYR A		28.971	31.911		1.00 11.02
	ATOM	3661	OH	TYR A		27.589	31.834	76.938 76.894	1.00 16.71
	ATOM	3662	N	ASP A		36.098	31.706	75.558	1.00 13.32
	ATOM	3663	CA	ASP A		37.463	32.218	75.579	1.00 13.39
30	ATOM	3664	C	ASP A		37.414	33.608	76.255	1.00 15.74
	ATOM	3665	ō	ASP A		36.516	34.415	75.966	1.00 15.04
	ATOM	3666	СВ	ASP A		37.968	32.336	74.133	1.00 13.04
	ATOM	3667	CG	ASP A		39.393	32.801	74.133	1.00 12.30
	ATOM	3668		ASP A		40.335	32.064	74.140	1.00 23.31
35	ATOM	3669		ASP A		39.520	34.087	74.051	1.00 40.40
	ATOM	3670	N	MET A		38.339	33.887	77.191	1.00 12.14
	ATOM	3671	CA	MET A		38.359	35.144	77.928	1.00 9.92
	ATOM	3672	С	MET A		39.312	36.203	77.406	1.00 15.43
	ATOM	3673	0	MET A		39.413	37.265	77.958	1.00 15.61
40	MOTA	3674	СВ	MET A		38.688	34.910	79.404	1.00 9.27
	ATOM	3675	ÇĞ	MET A		37.716	33.909	79.977	1.00 13.43
	ATOM	3676	SD	MET A		36.053	34.635	80.074	1.00 19.12
	ATOM	3677	CE	MET A		36.505	35.919	81.264	1.00 17.88
	ATOM	3678	N	THR A		40.037	35.922	76.347	1.00 17.00
45	ATOM	3679	CA	THR A		41.004	36.860	75.849	1.00 13.07
	ATOM	3680	C	THR A		40.675	38.339	75.910	1.00 16.34
	ATOM	3681	Õ	THR A		41.365	39.106	76.567	1.00 16.05
	ATOM	3682	CB	THR A		41.595	36.434	74.489	1.00 17.83
	ATOM	3683		THR A		41.940	35.051	74.538	1.00 14.22
50	ATOM	3684		THR A		42.841	37.298	74.204	1.00 15.70
	ATOM	3685	N -	LEU A		39.679	38.762	75.136	1.00 14.21
	ATOM	3686	CA	LEU A		39.262	40.154	75.060	1.00 13.52
	ATOM	3687	c	LEU A		38.408	40.679	76.228	1.00 12.70
	ATOM	3688	Ō	LEU A		38.259	41.881	76.442	1.00 15.39
55	ATOM	3689	СВ	LEU A		38.508	40.348	73.725	1.00 13.87
	ATOM	3690	CG	LEU A		39.363	40.009	72.495	1.00 18.04
	ATOM	3691		LEU A		38.448	40.076	71.260	1.00 14.36
	ATOM	3692		LEU A		40.490	41.054	72.345	1.00 17.86
	ATOM	3693	N N	THR A		37.808	39.770	76.979	1.00 17.86
60	MOTA	3694	CA	THR A		36.946	40.116	78.103	1.00 11.81
	ATOM	3695	CA	THR A		37.728	40.116	79.360	1.00 10.62
	MOTA	3696	0	THR A		37.361	41.359	80.131	1.00 17.70
	ATOM	3697	СВ	THR A		35.996	38.934	78.368	1.00 13.33
	ATOM	3698		THR A		35.209	38.765	77.199	1.00 12.38
	AION	2020	001	IRK A	403	33,209	30.703	11.199	1.00 10.00

		ATOM	3699	CG2	THR	Δ	465	35.075	39.241	79.545	1.00 17.17
		ATOM	3700	N			466	38.828	39.785	79.584	1.00 14.17
		ATOM	3701	CA			466	39.639	40.017	80.738	1.00 14.86
	_	ATOM	3702	С	ASN	Α	466	39.933	41.491	81.017	1.00 16.02
	5	ATOM	3703	0	ASN	Α	466	39.843	41.892	82.177	1.00 17.05
		MOTA	3704	CB	ASN			40.942	39.197	80.694	1.00 14.48
		ATOM	3705	CG			466	40.787	37.705	80.932	1.00 22.10
		ATOM	3706		ASN			41.539	36.878	80.386	1.00 21.72
	10	ATOM	3707		ASN			39.925	37.356	81.852	1.00 11.12
	10	MOTA MOTA	3708 3709	n Ca	ALA		467	40.313	42.307 43.704	80.012 80.336	1.00 16.17 1.00 16.10
		MOTA	3710	C	ALA			39.394	44.448	80.871	1.00 20.19
		MOTA	3711	ō	ALA			39.488	45.363	81.722	1.00 17.63
		ATOM	3712	СВ	ALA			41.159	44.411	79.118	1.00 14.71
	15	MOTA	3713	N	CYS	A	468	38.227	44.022	80.343	1.00 15.87
		ATOM	3714	CA	CYS	A	468	36.938	44.608	80.712	1.00 13.86
		ATOM	3715	С	CYS			36.609	44.369	82.167	1.00 15.16
		ATOM	3716	0	CYS			36.229	45.234	82.931	1.00 17.79
	20	ATOM	3717	CB	CYS			35.820	44.045	79.808	1.00 11.73
	20	ATOM	3718	SG	CYS			36.215	44.458	78.102	1.00 15.87
		ATOM ATOM	3719	И	ILE			36.811	43.145	82.571	1.00 13.83
		ATOM	3720 3721	CA C	ILE			36.531 37.488	42.747 43.393	83.941 84.910	1.00 11.80
		ATOM	3722	Ö	ILE			37.076	43.848	85.970	1.00 18.22
	25	ATOM	3723	СВ	ILE			36.659	41.230	84.042	1.00 15.30
		ATOM	3724		ILE			35.527	40.557	83.263	1.00 19.73
		ATOM	3725		ILE			36.688	40.791	85.497	1.00 11.46
		MOTA	3726	CD1	ILE	A	469	35.788	39.073	82.977	1.00 25.13
	20	ATOM	3727	N	ALA			38.776	43.375	84.572	1.00 12.77
	30	ATOM	3728	CA	ALA			39.729	43.967	85.475	1.00 11.93
		ATOM	3729	С	ALA			39.304	45.404	85.786	1.00 14.05
		MOTA	3730 3731	O	ALA			39.264	45.860	86.941	1.00 15.14
		MOTA MOTA	3732	CB N	ALA LEU			41.078 38.979	43.982 46.120	84.759 84.708	1.00 12.54 1.00 15.25
	35	ATOM	3733	CA	LEU			38.585	47.538	84.796	1.00 13.23
		ATOM	3734	C	LEU			37.257	47.792	85.510	1.00 17.64
		MOTA	3735	0	LEU			37.144	48.630	86.411	1.00 13.08
		ATOM	3736	CB	LEU			38.685	48.274	83.442	1.00 11.79
	40	MOTA	3737	CG	LEU			38.684	49.803	83.614	1.00 15.97
	40	ATOM	3738		LEU			39.855	50.262	84.497	1.00 12.47
		MOTA	3739		LEU			38.753	50.493	82.248	1.00 17.27
		MOTA MOTA	3740 3741	n ca	SER			36.220 34.963	47.049 47.264	85.137 85.808	1.00 14.37 1.00 11.84
		ATOM	3742	C	SER			35.082	46.900	87.284	1.00 18.13
	45	ATOM	3743	ō	SER			34.533	47.581	88.145	1.00 16.29
		ATOM	3744	СВ	SER			33.822	46.488	85.153	1.00 12.21
		MOTA	3745	OG	SER	A	472	34.090	45.121		1.00 18.74
		ATOM	3746	N	GLN			35.761	45.804	87.615	1.00 12.67
•••••	50	ATOM	3747	CA	GLN			35.886	45.455	89.028	1.00 10.49
	50	ATOM	3748	С	GLN			36.615	46.538	89.813	1.00 12.50
:		ATOM'	3749	0	GLN			36.278		90.950	1.00 12.44
		MOTA MOTA	3750 3751	CB	GLN			36,649 35.730	44.137	89.180 89.040	1.00 13.06 1.00 20.04
		MOTA	3752	CD	GLN GLN			34.634	42.908 42.874	90.108	1.00 20.04
	55	ATOM	3753		GLN			34.917	42.605	91.270	1.00 30.46
:-		MOTA	3754		GLN			33.387	43.130	89.742	1.00 21.25
··-·		ATOM	3755	N	ARG	Α	474	37.656	47.087	89.183	1.00 14.11
		ATOM	3756	CA	ARG	Α	474	38.400	48.158	89.868	1.00 17.39
`	<b>^</b> ^	MOTA	3757	С	ARG			37.478	49.325	90.235	1.00 21.36
:	60	ATOM	3758	0	ARG			37.577	49.922	91.304	1.00 18.76
		MOTA	3759	CB	ARG			39.532	48.719	89.034	1.00 11.27
1,11		ATOM	3760	CG	ARG			40.786	47.842	89.038	1.00 17.88
		ATOM	3761 3762	CD	ARG			41.727	48.283	87.928	1.00 21.70 1.00 19.49
·.· ·		ATOM	3762	NE	ARG	М	4/4	42.122	49.665	88.177	1.00 13.43

	MOTA	3763	CZ	ARG	A 474	42.837	50.419	87.361	1.00 31.34		
	MOTA	3764	NH1		A 474		49.918	86.190	1.00 25.99		
	ATOM	3765			A 474		51.679	87.742	1.00 17.92		
	MOTA	3766	N		A 475		49.686	89.306	1.00 14.64		
5	ATOM	3767	CA		A 475		50.774	89.542	1.00 13.85		
	ATOM	3768	c				50.352				
					A 475			90.524	1.00 18.33		
	ATOM	3769	0		A 475		51.076	91.430	1.00 15.30		
	ATOM	3770	CB		A 475		51.236	88.235	1.00 13.65		
10	ATOM	3771	CG		A 475		52.222	87.479	1.00 14.81		
10	MOTA	3772			A 475		51.943	86.399	1.00 17.78		
	MOTA	3773			A 475		53.640	87.742	1.00 14.88		
	ATOM	3774	NE1	TRP	A 475	37.284	53.090	85.976	1.00 18.25		
	MOTA	3775	CE2	TRP	A 475	36.885	54.152	86.756	1.00 20.66		
	ATOM	3776	CE3	TRP	A 475	35.464	54.518	88.694	1.00 15.98		
15	ATOM	3777	CZ2	TRP	A 475	37.243	55.511	86.714	1.00 19.78		
	MOTA	3778			A 475		55.853	88.665	1.00 18.27		
	MOTA	3779			A 475		56.341	87.682	1.00 18.20		
	ATOM	3780	N		A 476		49.157	90.362	1.00 15.43		
	ATOM	3781	CA		A 476						
20	ATOM	3782					48.713	91.251	1.00 15.88		
20			C		A 476		48.628	92.684	1.00 21.66		
	ATOM	3783	0		A 476		48.833	93.614	1.00 20.18		
	MOTA	3784	CB		A 476		47.354	90.775	1.00 16.74		
	MOTA	3785			A 476		47.485	89.497	1.00 13.74		
25	ATOM	3786			A 476		46.620	91.844	1.00 17.08		
25	MOTA	3787	CD1	ILE	A 476	31.568	46.130	88.810	1.00 22.82		
	MOTA	3788	N	THR	A 477	34.780	48.321	92.886	1.00 18.89		
	ATOM	3789	CA	THR	A 477	35.286	48.193	94.256	1.00 15.92		
	MOTA	3790	С	THR	A 477	36.151	49.355	94.708	1.00 17.65		
	MOTA	3791	0	THR	A 477	36.711	49.333	95.792	1.00 17.49		
30	MOTA	3792	CB	THR	A 477	36.132	46.904	94.384	1.00 21.13		
	MOTA	3793			A 477		46.986	93.545	1.00 19.88		
	MOTA	3794			A 477		45.673	94.035	1.00 16.31		
	ATOM	3795	N		A 478		50.369		1.00 18.44		
	MOTA	3796	CA		A 478		51.548	94.191	1.00 16.94		
35	ATOM	3797	c		A 478		52.219		1.00 20.18		
	ATOM	3798	ō		A 478		52.233		1.00 20.10		
	MOTA	3799	СВ		A 478		52.608				
	MOTA	3800						93.077	1.00 15.66		
			N		A 479		52.763		1.00 17.33		
40	ATOM	3801	CA		A 479		53.518	97.371	1.00 15.43		
+0	ATOM	3802	C		A 479		54.907		1.00 19.77		
	MOTA	3803	0		A 479		55.192	96.073	1.00 16.97	*	
	ATOM	3804	CB		A 479		52.853		1.00 17.71		
	MOTA	3805	CG		A 479		51.685	99.049	1.00 25.29		
4.5	ATOM	3806	CD		A 479		51.058	100.324	1.00 28.77		
45	MOTA	3807	CE	LYS	A 479	36.895	50.623	101.280	1.00 75.63		
	MOTA	3808	ΝZ	LYS	A 479	36.090	49.481	100.815	1.00 66.83		
	ATOM	3809	N	GLU	A 480	38.010	55.793	98.068	1.00 19.41		
	ATOM	3810	CA	GLU	A 480	38.497	57.120	97.853	1.00 19.30		
	MOTA	3811	С	GLU	A 480	39.933	57.069	97.387	1.00 21.25		
50	MOTA	3812	0	GLU	A 480		57.802	96.489	1.00 21.38		
	MOTA	3813	СВ		A 480		57.901	99.183	1.00 21.20		
	ATOM	3814	CG		A 480		58.931	99.171	1.00 53.93	• 0	
	ATOM	3815	CD		A 480		59.998	98.131	1.00100.00		
	ATOM	3816			A 480		60.401	97.756	1.00100.00		
55	ATOM	3817			A 480		60.456		1.00100.00		
55	ATOM										
		3818	N		A 481		56.249	98.059	1.00 15.59		
	MOTA	3819	CA		A 481		56.150		1.00 17.58		*
	ATOM	3820	C		A 481		55.609	96.372	1.00 22.00		
40	ATOM	3821	0		A 481		55.651	96.002	1.00 21.23		
60	ATOM	3822	CB		A 481		55.475		1.00 22.35		
	ATOM	3823	CG		A 481		53.974	98.879	1.00 26.70		
	ATOM	3824			A 481		53.276		1.00 22.31		
	ATOM	3825	OD2	ASP	A 481	43.769	53.466	99.638	1.00 19.37		
	MOTA	3826	N	ASP	A 482	41.483	55.147	95.608	1.00 16.23		

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	MOTA	3827	CA	ASP	Α	482	41.795	54.667	94.250	1.00 15.66
	MOTA	3828	С	ASP	Α	482	41.485	55.667	93.144	1.00 20.38
	ATOM	3829	0	ASP	Α	482	41.994	55.549	92.031	1.00 19.78
	ATOM	3830	CB	ASP	А	482	41.058	53.340	93.885	1.00 16.37
5	ATOM	3831	CG	ASP			41.360	52.283	94.918	1.00 14.59
				ASP						
	ATOM	3832					42.463	51.867	95.146	1.00 16.94
	ATOM	3833		ASP			40.338	51.972	95.654	1.00 17.55
	MOTA	3834	N	LEU	Α	483	40.627	56.645	93.423	1.00 17.94
	ATOM	3835	CA	LEU	Α	483	40.167	57.591	92.403	1.00 14.70
10	ATOM	3836	С	LEU	А	483	41.214	58.319	91.581	1.00 21.17
	ATOM	3837	ō	LEU			41.122	58.519	90.368	1.00 21.03
	ATOM	3838	CB	LEU						
							39.110	58.581	92.960	1.00 13.43
	ATOM	3839	CG	LEU			37.870	57.925	93.558	1.00 15.53
	ATOM	3840		LEU			36.970	59.020	94.114	1.00 19.32
15	ATOM	3841	CD2	LEU	Α	483	37.047	57.172	92.512	1.00 16.27
	ATOM	3842	N	ASN	Α	484	42.220	58.761	92.289	1.00 19.63
	ATOM	3843	CA	ASN			43.274	59.541	91.713	1.00 19.74
	ATOM	3844	c.	ASN					90.738	1.00 21.84
							44.128	58.789		
20	MOTA	3845	0	ASN			44.723	59.343	89.827	1.00 20.30
20	ATOM	3846	CB	ASN	A	484	44.110	60.036	92.891	1.00 34.83
	MOTA	3847	CG	ASN	Α	484	45.382	60.719	92.449	1.00100.00
	MOTA	3848	ODl	ASN	Α	484	45.345	61.686	91.662	1.00 87.99
	ATOM	3849		ASN			46.510	60.200	92.946	1.00100.00
	ATOM	3850	N	SER			44.183	57.510	90.918	1.00 17.69
25										
23	ATOM	3851	CA	SER			44.986	56.711	90.020	1.00 19.64
	MOTA	3852	С	SER			44.283	56.335	88.728	1.00 22.88
	MOTA	3853	0	SER	Α	485	44.965	55.937	87.778	1.00 23.74
	MOTA	3854	CB	SER	Α	485	45.543	55.508	90.752	1.00 26.03
	ATOM	3855	OG	SER	Α	485	45.864	55.954	92.057	1.00 52.22
30	ATOM	3856	N	PHE			42.948	56.451	88.650	1.00 15.68
• •	ATOM	3857	CA	PHE			42.367	56.105	87.371	1.00 17.12
	MOTA	3858	С	PHE			42.879	57.120	86.403	1.00 16.98
	MOTA	3859	0	PHE			43.165	58.236	86.812	1.00 15.87
	ATOM	3860	CB	PHE	Α	486	40.827	56.088	87.376	1.00 18.47
35	MOTA	3861	CG	PHE	Α	486	40.270	54.950	88.181	1.00 17.85
	MOTA	3862	CD1	PHE	Α	486	40.325	53.646	87.686	1.00 17.48
	ATOM	3863	CD2	PHE			39.669	55.169	89.423	1.00 19.85
	MOTA	3864	CE1	PHE			39.790	52.599	88.441	1.00 18.74
40	MOTA	3865		PHE			39.119	54.139	90.189	1.00 19.10
40	MOTA	3866	CZ	PHE			39.208	52.839	89.689	1.00 17.75
	MOTA	3867	N	ASN		-	42.965	56.744	85.140	1.00 16.22
	MOTA	3868	CA	ASN	Α	487	43,499	57.636	84.141	1.00 20.09
	ATOM	3869	С	ASN	Α	487	43.100	57.184	82.746	1.00 23.67
	ATOM	3870	0	ASN			42.770	56.024	82.522	1.00 22.60
45	ATOM	3871	СВ	ASN			45.058	57.575	84.255	1.00 21.63
,,,	ATOM	3872								
			CG	ASN			45.776	58.616	83.415	1.00 32.80
	MOTA	3873		ASN			45.901	58.498	82.202	1.00 29.22
	MOTA	3874	ND2	ASN	Α	487	46.159	59.725	84.021	1.00 31.52
	MOTA	3875	N	ALA	Α	488	43.145	58.126	81.800	1.00 23.87
50	ATOM	3876	CA	ALA	Α	488	42.808	57.829	80.411	1.00 24.07
	ATOM	3877	C	ALA			43.673	56.703	79.873	1.00 30.63
	ATOM	3878	ō	ALA			43.336	55.962	78.958	1.00 33.83
	ATOM	3879	СВ	ALA			42.978	59.086	79.574	1.00 26.14
	MOTA	3880	N	THR			44.835	56.532	80.467	1.00 25.63
55	MOTA	3881	CA	THR	Α	489	45.666	55.468	79.987	1.00 22.82
	MOTA	3882	С	THR	Α	489	44.976	54.168	80.210	1.00 24.75
	ATOM	3883	0	THR			45.323	53.163	79.615	1.00 26.26
	ATOM	3884	СВ	THR			47.017	55.459	80.691	1.00 29.64
60	MOTA	3885		THR			46.814	55.537	82.076	1.00 29.43
60	MOTA	3886	CG2				47.774	56.684	80.231	1.00 35.78
	MOTA	3887	N	ASP	A	490	43.999	54.180	81.097	1.00 21.60
	MOTA	3888	CA	ASP			43.288	52.946	81.362	1.00 20.54
	ATOM	3889	С	ASP			42.628	52.391	80.104	1.00 14.90
	ATOM	3890	õ	ASP			42.363	51.207	80.013	1.00 18.94
	77.011	5570	Ü	TIDE	-	170	12.303	31.201	30.013	1.00 10.01

	MOTA	3891	CB	ASP A	490	42.188	53.100	82.462	1.00 18.42
	ATOM	3892	CG	ASP A		42.764	53.483	83.785	1.00 21.60
	ATOM	3893		ASP A		43.865	53.165	84.170	1.00 22.97
	ATOM	3894	OD2	ASP A	490	41.930	54.124	84.534	1.00 18.24
5	ATOM	3895	N	LEU A		42.309	53.262	79.180	1.00 14.42
-		3896				41.571			
	MOTA		CA	LEU A			52.910	77.971	1.00 18.63
	ATOM	3897	С	LEU A	491	42.404	52.634	76.735	1.00 26.17
	ATOM	3898	0	LEU A	491	41.863	52.350	75.689	1.00 23.53
	ATOM	3899	СВ	LEU A		40.626	54.065	77.600	1.00 16.48
10									
10	ATOM	3900	CG	LEU A		39.793	54.553	78.786	1.00 17.62
	MOTA	3901	CD1	LEU A	491	38.719	55.504	78.256	1.00 18.61
	MOTA	3902	CD2	LEU A	491	39.164	53.341	79.481	1.00 10.99
	ATOM	3903	N	LYS A		43.697	52.773	76.906	1.00 25.72
	ATOM	3904	CA	LYS A	492	44.773	52.625	75.944	1.00 29.38
15	MOTA	3905	С	LYS A	492	44.601	51.464	74.987	1.00 26.62
	ATOM	3906	o	LYS A		44.640	51.598	73.769	1.00 25.36
	ATOM	3907	CB	LYS A	492	46.051	52.369	76.768	1.00 39.68
	ATOM	3908	CG	LYS A	492	47.400	52.731	76.164	1.00 74.03
	ATOM	3909	CD	LYS A	492	48.535	52.573	77.175	1.00 92.88
20	ATOM	3910	CE	LYS A					
20						49.162	51.184	77.249	1.00100.00
	MOTA	3911	ΝZ	LYS A	492	50.629	51.214	77.397	1.00100.00
	ATOM	3912	N	ASP A	493	44.504	50.271	75.514	1.00 22.05
	ATOM	3913	CA	ASP A		44.400	49.213	74.525	1.00 25.28
0.5	ATOM	3914	С	ASP A		43.008	48.604	74.421	1.00 31.85
25	ATOM	3915	0	ASP A	493	42.844	47.411	74.178	1.00 31.64
	MOTA	3916	CB	ASP A	493	45.414	48.126	74.874	1.00 30.29
	ATOM	3917	CG	ASP A		46.803	48.680	74.973	1.00 47.27
	MOTA	3918		ASP A		47.322	49.280	74.036	1.00 49.99
	MOTA	3919	OD2	ASP A	493	47.334	48.481	76.167	1.00 45.03
30	ATOM	3920	N	LEU A	494	41.989	49.430	74.622	1.00 23.95
	ATOM	3921	CA	LEU A				74.576	
						40.633	48.920		1.00 19.08
	MOTA	3922	С	LEU A		39.939	49.350	73.295	1.00 21.27
	ATOM	3923	0	LEU A	494	39.960	50.537	72.963	1.00 22.24
	ATOM	3924	CB	LEU A	494	39.833	49.421	75.800	1.00 16.85
35	ATOM	3925	CG	LEU A		40.346		77.145	
55							48.949		1.00 19.46
	MOTA	3926	CDI	LEU A	494	39.307	49.363	78.182	1.00 18.39
	ATOM	3927	CD2	LEU A	494	40.511	47.422	77.183	1.00 20.77
	MOTA	3928	N	SER A	495	39.320	48.401	72.573	1.00 17.36
10	ATOM	3929	CA	SER A		38.594	48.790	71.382	1.00 16.04
40	MOTA	3930	С	SER A	495	37.256	49.395	71.854	1.00 16.87
	ATOM	3931	0	SER A	495	36.902	49.328	73.042	1.00 13.30
	ATOM	3932	CB	SER A		38.253	47.547	70.576	1.00 16.67
	ATOM	3933	OG	SER A		37.477	46.701	71.422	1.00 17.37
	ATOM	3934	N	SER A	496	36.496	49.950	70.922	1.00 14.14
45	MOTA	3935	CA	SER A	496	35.200	50.501	71.254	1.00 16.64
	ATOM	3936	С	SER A	496	34.316	49.365	71.794	
	ATOM	3937	0	SER A		33.495	49.589	72.680	1.00 16.25
	MOTA	3938	CB	SER A	496	34.553	51.190	70.050	1.00 17.35
	MOTA	3939	OG	SER A	496	34.309	50.183	69.105	1.00 23.79
50	MOTA	3940	N	HIS A		34.522	48.136	71.274	1.00 15.34
•									
	ATOM	3941	CA	HIS A		33.794	46.965	71.729	1.00 13.46
	ATOM	3942	С	HIS A	497	33.999	46.671	73.224	1.00 17.45
	ATOM	3943	0	HIS A	497	33.120	46.277	73.992	1.00 17.69
5.5	ATOM	3944	CB	HIS A		34.211	45.761	70.874	1.00 13.79
55	MOTA	3945	CG	HIS A	497	33.804	46.004	69.470	1.00 20.43
	ATOM	3946	ND1	HIS A	497	34.738	46.342	68.482	1.00 24.52
	ATOM	3947		HIS A			46.044		
						32.551		68.930	1.00 21.08
	MOTA	3948		HIS A		34.039	46.531	67.358	1.00 21.87
	ATOM	3949	NE2	HIS A	497	32.725	46.363	67.602	1.00 23.02
60	ATOM	3950	N	GLN A		35.230	46.833	73.662	1.00 14.00
	ATOM	3951	CA	GLN A				75.029	
						35.633	46.593		1.00 10.78
	ATOM	3952	С	GLN A		35.180	47.697	75.968	1.00 13.63
	ATOM	3953	0	GLN A	498	34.829	47.449	77.118	1.00 13.35
	ATOM	3954	CB	GLN A		37.156	46.416	75.038	1.00 11.59
		2233	25	2 mi 1	150	511150	40.410	, , , , , , ,	1.00 11.09

	ATOM	3955	CG	GLN A	498	37.585	45.026	74.488	1.00 14.99
	ATOM	3956	CD	GLN A		39.101	44.938	74.454	1.00 21.92
	ATOM	3957	OE1			39.746	45.833	73.897	1.00 18.12
	ATOM	3958		GLN A		39.685	43.957	75.117	1.00 11.55
5	ATOM	3959	N	LEU A		35.200	48.942	75.490	1.00 16.63
_	ATOM	3960	CA	LEU A		34.712	50.095	76.273	1.00 18.30
	MOTA	3961	C	LEU A		33.222	49.848	76.647	1,00 18.08
	ATOM	3962	Ö	LEU A		32.711	50.004	77.782	1.00 14.69
	ATOM	3963	СВ	LEU A		34.719	51.296	75.293	1.00 19.02
10	ATOM	3964	CG	LEU A		35.650	52.421	75.677	1.00 28.28
10									1.00 23.28
	MOTA	3965		LEU A		36.768	51.856	76.527 74.448	
	ATOM	3966				36.210	53.135		1.00 31.77
	ATOM	3967	N	ASN A		32.491	49.430	75.610	1.00 11.59
15	ATOM	3968	CA	ASN A		31.084	49.123	75.748	1.00 10.98
15	ATOM	3969	C	ASN A		30.844	48.021	76.775	1.00 11.55
	MOTA	3970	0	ASN A		29.989	48.125	77.656	1.00 13.43
	ATOM	3971	СВ	ASN A		30.530	48.735	74.355	1.00 11.90
	ATOM	3972	CG	ASN A		29.020	48.504	74.328	1.00 26.05
20	ATOM	3973		ASN A		28.208	49.304	74.815	1.00 19.55
20	MOTA	3974	ND2	ASN A		28.607	47.387	73.759	1.00 21.02
	MOTA	3975	N	GLU A		31.601	46.927	76.633	1.00 11.18
	ATOM	3976	CA	GLU A		31.471	45.787	77.537	1.00 11.00
	MOTA	3977	С	GLU A	501	31.859	46.184	78.954	1.00 14.40
	ATOM	3978	0	GLU A	501	31.266	45.757	79.930	1.00 13.70
25	ATOM	3979	CB	GLU A	501	32.286	44.574	77.022	1.00 13.23
	ATOM	3980	CG	GLU A	501	32.328	43.425	78.064	1.00 12.24
	ATOM	3981	CD	GLU A	501	30.930	42.880	78.253	1.00 20.51
	ATOM	3982	OE1	GLU A	501	30.040	43.113	77.452	1.00 18.75
	MOTA	3983	OE2	GLU A	501	30.747	42.158	79.338	1.00 16.17
30	ATOM	3984	N	PHE A	502	32.876	47.051	79.080	1.00 10.99
	ATOM	3985	CA	PHE A	502	33.281	47.530	80.382	1.00 12.47
	ATOM	3986	С	PHE A	502	32.095	48.241	81.068	1.00 12.80
	ATOM	3987	0	PHE A	502	31.733	48.062	82.230	1.00 11.74
	ATOM	3988	CB	PHE A	502	34.498	48.490	80.167	1.00 14.11
35	ATOM	3989	CG	PHE A	502	34.641	49.500	81.265	1.00 11.76
	ATOM	3990	CD1	PHE A	502	34.958	49.120	82.570	1.00 9.77
	ATOM	3991	CD2	PHE A	502	34.363	50.847	81.040	1.00 17.45
	ATOM	3992	CE1	PHE A	502	35.059	50.053	83.605	1.00 12.88
	ATOM	3993	CE2	PHE A	502	34.443	51.799	82.063	1.00 20.32
40	ATOM	3994	CZ	PHE A	502	34.812	51.406	83.350	1.00 16.55
	ATOM	3995	N	LEU A		31.470	49.100	80.286	1.00 10.48
	ATOM	3996	CA	LEU A	503	30.342	49.835	80.759	1.00 11.84
	ATOM	3997	С	LEU A	503	29.184	48.917	81.089	1.00 11.65
	ATOM	3998	0	LEU A		28.531	49.077	82.110	1.00 14.41
45	ATOM	3999	CB	LEU A		29.974	50.854	79.668	1.00 12.15
	ATOM	4000	CG	LEU A		30.872	52.105	79.668	1.00 12.97
	ATOM	4001		LEU A		30.572			1.00 9.62
	ATOM	4002		LEU A		30.614	52.935	80.936	1.00 14.08
	ATOM	4003	N	ALA A		28.947	47.910	80.248	1.00 12.65
50	ATOM	4004	CA	ALA A		27.850	46.977	80.499	1.00 8.77
	ATOM	4005	C	ALA A		28.038	46.282	81.812	1.00 12.09
	ATOM	4006	Ō	ALA A		27.118	46.081	82.598	1.00 10.26
	ATOM	4007	CB	ALA A		27.742	45.965	79.370	1.00 7.47
	ATOM	4008	N	GLN A		29.280	45.900	82.035	1.00 12.47
55	ATOM	4009	CA	GLN A		29.609	45.209	83.271	1.00 12.94
	ATOM	4010	C	GLN A		29.424	46.144	84.484	1.00 14.71
	ATOM	4011	Ö	GLN A		28.902	45.773	85.566	1.00 13.04
	ATOM	4011	CB	GLN A	-	31.068	43.773	83.183	1.00 13.04
	ATOM							82.174	1.00 14.37
60		4013	CG	GLN A		31.243	43.520 43.054		1.00 17.48
UU	ATOM	4014	CD OF1	GLN A		32.693		82.089	
	ATOM	4015	OE1	GLN A		33.556	43.462	82.890	1.00 21.65
	ATOM	4016		GLN A		32.990	42.221	81.096	1.00 16.13
	ATOM	4017	И	THR A		29.862	47.389	84.298	1.00 13.56
	ATOM	4018	CA	THR A	<b>506</b>	29.749	48.348	85.373	1.00 15.13

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	ATOM	4019	С	THR A	506	28.280	48.610	85.714	1.00 17.30
	ATOM	4020	0	THR A		27.835	48.662	86.879	1.00 13.71
	ATOM	4021	CB	THR A	506	30.561	49.613	85.043	1.00 13.74
	ATOM	4022	OG1	THR A	506	31.903	49.243	84.853	1.00 13.66
5	ATOM	4023		THR A		30.542	50.538	86.242	1.00 16.98
	ATOM	4024	N	LEU A	507	27.532	48.734	84.636	1.00 15.17
	ATOM	4025	CA	LEU A	507	26.109	49.007	84.748	1.00 15.46
	ATOM	4026	С	LEU A		25.391	47.944	85.517	1.00 15.53
10	ATOM	4027	0	LEU A		24.464	48.230	86.256	1.00 14.10
10	MOTA	4028	CB	LEU A	507	25.476	49.185	83.351	1.00 16.26
	ATOM	4029	CG	LEU A	507	24.017	49.581	83.374	1.00 17.96
	ATOM	4030		LEU A		23.801	50.929	84.087	1.00 12.71
	ATOM	4031	CD2	LEU A	507	23.550	49.633	81.923	1.00 13.10
	ATOM	4032	N	GLN A	508	25.802	46.696	85.343	1.00 14.24
15	ATOM	4033	CA	GLN A		25.145	45.630	86.077	1.00 11.70
	ATOM	4034	С	GLN A		25.264	45.846	87.581	1.00 19.07
	MOTA	4035	0	GLN A	508	24.521	45.269	88.354	1.00 16.98
	MOTA	4036	CB	GLN A	508	25.736	44.246	85.745	1.00 11.79
	ATOM	4037	CG	GLN A		25.402		84.334	1.00 17.73
20							43.722		
20	ATOM	4038	CD	GLN A	508	25.860	42.282	84.204	1.00 20.08
	ATOM	4039	OE1	GLN A	508	26.960	41.972	84.695	1.00 23.98
	ATOM	4040		GLN A		25.048	41.402	83.594	1.00 15.23
	MOTA	4041	N	ARG A		26.217	46.639	88.053	1.00 17.16
	ATOM	4042	CA	ARG A	509	26.332	46.847	89.498	1.00 12.26
25	MOTA	4043	С	ARG A	509	25.960	48.279	89.899	1.00 17.09
	ATOM	4044	Ō	ARG A		26.379	48.778	90.948	1.00 18.12
	ATOM	4045	CB	ARG A	509	27.741	46.537	90.036	1.00 12.59
	ATOM	4046	CG	ARG A	509	28.095	45.097	89.784	1.00 17.56
	ATOM	4047	CD	ARG A	509	27.422	44.228	90.829	1.00 25.37
30	ATOM	4048	NE	ARG A				92.117	1.00 81.24
30						28.134	44.270		
	MOTA	4049	CZ	ARG A	509	29.377	43.822	92.417	1.00 88.85
	ATOM	4050	NH1	ARG A	509	30.235	43.233	91.555	1.00 63.02
	ATOM	4051		ARG A		29.779	43.978	93.676	1.00 42.33
25	ATOM	4052	N	ALA A		25.162	48.958	89.088	1.00 14.89
35	ATOM	4053	CA	ALA A	510	24.782	50.321	89.428	1.00 13.02
	ATOM	4054	С	ALA A	510	23.824	50.270	90.594	1.00 22.66
	ATOM	4055	Ö	ALA A		23.176	49.243	90.747	1.00 21.57
	ATOM	4056	CB	ALA A	510	24.166	51.066	88.248	1.00 13.60
	ATOM	4057	N	PRO A	511	23.755	51.340	91.417	1.00 20.55
40	MOTA	4058	CA	PRO A		24.521	52.568	91.190	1.00 16.50
	ATOM	4059	C	PRO A		25.912	52.528	91.759	1.00 17.68
	MOTA	4060	0	PRO A	511	26.199	51.765	92.658	1.00 15.20
	MOTA	4061	CB	PRO A	511	23.836	53.667	92.001	1.00 15.68
	MOTA	4062	CG	PRO A	511	23.118	52.916	93.106	1.00 22.23
45									
43	ATOM	4063	CD	PRO A		22.859	51.497	92.597	1.00 18.77
	ATOM	4064	N	LEU A	512	26.755	53.380	91.203	1.00 19.26
	MOTA	4065	CA	LEU A	512	28.070	53.588	91.751	1.00 19.26
	ATOM	4066	С	LEU A		27.964	54.919	92.529	1.00 19.35
<b>5</b> 0	MOTA	4067	0	LEU A		27.053	55.732	92.316	1.00 15.40
50	ATOM	4068	CB	LEU A	512	29.183	53.659	90.683	1.00 19.06
	ATOM	4069	CG	LEU A		29.796	52.274	90.415	1.00 23.85
									The second secon
	ATOM	4070		LEU A		28.762	51.351	89.763	1.00 24.14
	MOTA	4071	CD2	LEU A		30.975	52.408	89.453	1.00 17.31
	ATOM	4072	N	PRO A	513	28.880	55.157	93.459	1.00 18.91
55	ATOM	4073	CA	PRO A		28.823	56.408	94.168	1.00 16.34
	ATOM	4074	С	PRO A		28.925	57.520	93.140	1.00 17.64
	ATOM	4075	0	PRO A	513	29.686	57.443	92.192	1.00 15.39
	ATOM	4076	CB	PRO A	513	30.031	56.431	95.107	1.00 16.06
	ATOM	4077	CG	PRO A				95.246	1.00 21.97
60						30.443	54.972		
<b>6</b> 0	MOTA	4078	CD	PRO A		29.960	54.270	93.987	1.00 17.15
	ATOM	4079	N	LEU A	514	28.154	58.573	93.341	1.00 19.37
	ATOM	4080	CA	LEU A		28.155	59.712	92.431	1.00 20.71
	ATOM	4081	С	LEU A		29.567	60.240	92.151	1.00 22.73
	ATOM	4082	0	LEU A	514	29.934	60.486	90.991	1.00 20.91

	MOTA	4083	CB	LEU A	514	27.209	60.816	92.955	1.00 19.46
	ATOM	4084	CG	LEU A	514	27.173	62.058	92.077	1.00 23.47
	ATOM	4085		LEU A		26.650	61.694	90.681	1.00 21.60
	ATOM	4086		LEU A		26.275	63.087	92.767	1.00 19.09
5			N						
,	ATOM	4087		GLY A		30.353	60.384	93.236	1.00 19.02
	MOTA	4088	CA	GLY A		31.711	60.866	93.104	1.00 16.33
	MOTA	4089	С	GLY A		32.489	60.000	92.121	1.00 20.68
	MOTA	4090	0	GLY A	515	33.336	60.489	91.363	1.00 17.47
	ATOM	4091	N	HIS A	516	32.199	58.691	92.105	1.00 16.69
10	MOTA	4092	CA	HIS A	516	32.961	57.829	91.206	1.00 16.67
	ATOM	4093	С	HIS A		32.629	58.092	89.762	1.00 16.39
	ATOM	4094	ō	HIS A		33.485	58.094	88.886	1.00 13.40
	ATOM	4095	CB	HIS A		32.781	56.335	91.479	1.00 16.85
1.5	MOTA	4096	CG	HIS A		33.328	55.909	92.786	1.00 23.07
15	MOTA	4097		HIS A		33.586	56.811	93.804	1.00 27.10
	MOTA	4098	CD2	HIS A	1 516	33.691	54.664	93.219	1.00 26.55
	ATOM	4099	CE1	HIS A	516	34.067	56.096	94.831	1.00 27.40
	MOTA	4100	NE2	HIS A	516	34.144	54.803	94.514	1.00 26.59
	MOTA	4101	N	ILE A		31.349	58.288	89.534	1.00 14.76
20	ATOM	4102	CA	ILE A		30.887	58.520	88.189	1.00 15.71
	ATOM	4103	Č.	ILE A		31.444	59.817	87.666	1.00 13.71
	ATOM	4104	0	ILE A		31.851	59.960	86.511	1.00 13.02
	ATOM	4105	CB	ILE A		29.350	58.408	88.144	1.00 20.46
~-	ATOM	4106	CG1	ILE A		28.925	56.989	88.555	1.00 23.97
25	ATOM	4107	CG2			28.793	58.653	86.750	1.00 19.51
	ATOM	4108	CD1	ILE A	517	29.636	55.831	87.826	1.00 21.92
	ATOM	4109	N	LYS A		31.433	60.804	88.549	1.00 13.76
	ATOM	4110	CA	LYS A		32.004	62.082	88.137	1.00 12.83
	ATOM	4111	С	LYS A		33.487	61.877	87.759	1.00 17.13
30	ATOM	4112	ō	LYS A		33.971	62.371	86.745	1.00 14.95
-	ATOM	4113	СВ	LYS A				89.279	1.00 12.59
		4114				31.858	63.092		
	MOTA		CG	LYS A		30.392	63.447	89.416	1.00 15.77
	ATOM	4115	CD	LYS A		30.169	64.528	90.446	1.00 25.59
25	ATOM	4116	CE	LYS A		28.743	65.047	90.425	1.00 26.22
35	ATOM	4117	NZ	LYS A		28.669	66.440	90.886	1.00 26.75
	MOTA	4118	И	ARG A	519	34.237	61.144	88.604	1.00 15.99
	MOTA	4119	CA	ARG A	519	35.647	60.914	88.321	1.00 13.25
	MOTA	4120	С	ARG A	. 519	35.803	60.213	86.998	1.00 16.26
	ATOM	4121	0	ARG A	519	36.679	60.478	86.216	1.00 13.50
40	ATOM	4122	CB	ARG A		36.265	60.075	89.423	1.00 14.16
	ATOM	4123	CG	ARG A		37.741	59.741	89.216	1.00 13.79
	ATOM	4124	CD	ARG A		38.685	60.955	89.134	1.00 22.42
	ATOM	4125	NE	ARG A				89.069	
		-				40.127	60.613		1.00 17.77
45	ATOM	4126	CZ	ARG A		41.035	61.432	88.570	1.00 19.26
43	ATOM	4127		ARG A		40.692	62.640	88.087	1.00 18.57
	MOTA	4128		ARG A		42.289	61.014	88.549	1.00 17.51
	MOTA	4129	N	MET A		34.897	59.292	86.743	1.00 13.85
	ATOM	4130	CA	MET A	. 520	34.944	58.548	85.514	1.00 13.32
	ATOM	4131	С	MET A	. 520	34.803	59.460	84.299	1.00 16.61
50	MOTA	4132	0	MET A	520	35.461	59.286	83.279	1.00 15.39
	ATOM	4133	СВ	MET A		33.860	57.425	85.585	1.00 15.92
	ATOM	4134	CG	MET A		33.887	56.502	84.369	1.00 16.73
		4135							
	MOTA		SD	MET A		32.699	55.131	84.463	1.00 19.40
E E	ATOM	4136	CE	MET A		33.250	54.267	85.942	1.00 17.31
55	ATOM	4137	N	GLN A		33.919	60.449	84.358	1.00 10.96
	ATOM	4138	CA	GLN A	. 521	33.800	61.336	83.205	1.00 10.25
	MOTA	4139	С	GLN A	521	35.105	62.160	83.122	1.00 14.21
	MOTA	4140	0	GLN A	521	35.684	62.487	82.073	1.00 11.43
	ATOM	4141	CB	GLN A		32.548	62.237	83.376	1.00 9.22
60	ATOM	4142	CG	GLN A		32.547	63.519	82.503	1.00 12.68
	ATOM	4143	CD	GLN A		32.758	63.301	81.025	1.00 18.23
		4144		GLN A					
	ATOM					33.271	64.187	80.309	1.00 20.20
	ATOM	4145		GLN A		32.453	62.102	80.554	1.00 10.43
	MOTA	4146	N	GLU A	. 522	35.608	62.524	84.295	1.00 15.29

	ATOM	4147	CA	GLU A	522	36.81	6 63.335	84.345	1.00 14.86
	ATOM	4148	С	GLU A	522	38.02	6 62.632	83.702	1.00 24.87
	ATOM	4149	0	GLU A		38.84		82.990	1.00 19.95
	ATOM	4150	СВ	GLU A		37.06		85.820	1.00 15.93
5	ATOM	4151	CG	GLU A		38.17		86.121	1.00 34.79
	ATOM	4152	CD	GLU A		38.01		87.556	1.00 61.54
	ATOM	4153	OE1	GLU A		38.43		88.466	1.00 01.34
	ATOM	4154		GLU A		37.25			
	ATOM	4155	N					87.710	1.00 60.58
10	ATOM	4156		VAL A		38.17		83.966	1.00 17.81
10		4157	CA	VAL A		39.30		83.392	1.00 17.49
	MOTA	4158	C	VAL A		39.08		81.994	1.00 17.20
	ATOM		0	VAL A		40.03		81.230	1.00 22.12
	ATOM	4159	CB	VAL A		39.95		84.340	1.00 18.80
15	ATOM	4160		VAL A		40.42		85.613	1.00 18.67
13	ATOM	4161		VAL A		38.95		84.717	1.00 17.30
	ATOM	4162	N	TYR A		37.85		81.633	1.00 13.33
	ATOM	4163	CA	TYR A		37.63		80.331	1.00 12.09
	ATOM	4164	С	TYR A		36.84		79.321	1.00 19.77
20	ATOM	4165	0	TYR A		36.72		78.179	1.00 17.94
20	ATOM	4166	CB	TYR A		36.96	1 57.656	80.463	1.00 13.83
	ATOM	4167	CG	TYR A		37.61		81.421	1.00 14.86
	ATOM	4168	CD1	TYR A	524	38.99	9 56.608	81.574	1.00 13.07
	ATOM	4169	CD2	TYR A	524	36.83	2 55.761	82.146	1.00 19.57
	ATOM	4170		TYR A		39.59	2 55.704	82.460	1.00 18.13
25	ATOM	4171	CE2	TYR A	524	37.40	3 54.832	83.019	1.00 18.46
	ATOM	4172	CZ	TYR A	524	38.79	0 54.813	83.181	1.00 17.58
	ATOM	4173	OH	TYR A	524	39.36	0 53.937	84.087	1.00 16.81
	ATOM	4174	N	ASN A	525	36.23	5 60.940	79.753	1.00 20.91
20	ATOM	4175	CA	ASN A	525	35.43	5 61.755	78.865	1.00 16.88
30	ATOM	4176	С	ASN A	525	34.48	8 60.923	78.018	1.00 18.05
	ATOM	4177	0	ASN A	525	34.45	0 61.014	76.789	1.00 15.92
	ATOM	4178	CB	ASN A	525	36.36	1 62.615	78.002	1.00 13.81
	ATOM	4179	CG	ASN A	525	35.68	0 63.751	77.259	1.00 18.94
0.5	MOTA	4180	OD1	ASN A	525	36.24	3 64.268	76.280	1.00 18.98
35	MOTA	4181	ND2	ASN A	525	34.50	2 64.169	77.693	1.00 14.31
	ATOM	4182	N	PHE A	526	33.65	9 60.120	78.683	1.00 14.70
	ATOM	4183	CA	PHE A	526	32.67	6 59.337	77.947	1.00 12.71
	ATOM	4184	С	PHE A	526	31.59	6 60.234	77.380	1.00 16.60
40	ATOM	4185	0	PHE A	526	30.89	1 59.866	76.439	1.00 15.88
40	MOTA	4186	CB	PHE A	526	32.03	B 58.303	78.876	1.00 14.35
	MOTA	4187	CG	PHE A	526	32.95	7 57.130	79.130	1.00 15.85
	ATOM	4188	CD1	PHE A	526	33.89	5 56.735	78.175	1.00 19.68
	ATOM	4189	CD2	PHE A	526	32.87	6 56.397	80.314	1.00 16.85
4	ATOM	4190	CE1	PHE A	526	34.68	7 55.604	78.378	1.00 21.64
45	ATOM	4191	CE2	PHE A	526	33.69		80.567	1.00 19.90
	ATOM	4192	CZ	PHE A	526	34.59	0 54.890	79.575	1.00 18.31
	ATOM	4193	N	ASN A	527	31.41	8 61.433	77.949	1.00 12.75
	MOTA	4194	CA	ASN A	527	30.39	1 62.355	77.446	1.00 12.28
<b>~</b> ^	MOTA	4195	С	ASN A	527	30.62		75.971	1.00 19.85
50	MOTA	4196	0	ASN A	527	29.71	5 62.907	75.185	1.00 18.13
	ATOM	4197	СВ	ASN A	527	30.43		78.160	1.00 13.86
	MOTA	4198	CG	ASN A	527	29.64	1 63.696	79.434	1.00 25.14
	MOTA	4199	OD1	ASN A	527	29.76		80.250	1.00 20.32
	MOTA	4200	ND2	ASN A	527	28.83	0 62.668	79.610	1.00 10.82
55	MOTA	4201	N	ALA A	528	31.90		75.607	1.00 15.34
	ATOM	4202	CA	ALA A	52B	32.28	0 62.964	74.264	1.00 17.72
	MOTA	4203	С	ALA A		32.07		73.228	1.00 26.48
	MOTA	4204	0	ALA A		32.19		72.031	1.00 21.26
	MOTA	4205	СВ	ALA A		33.72		74.236	1.00 18.38
60	MOTA	4206	N	ILE A		31.81		73.664	1.00 19.00
	ATOM	4207	CA	ILE A		31.69		72.731	1.00 15.58
	MOTA	4208	С	ILE A		30.38		71.945	1.00 15.90
	MOTA	4209	0	ILE A		29.30		72.494	1.00 16.45
	MOTA	4210	CB	ILE A		31.94		73.454	1.00 17.38
								<b>-</b>	

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	ATOM	4211		ILE A			33.456	58.159	73.709	1.00 19.42
	ATOM	4212		ILE .			31.511	57.103	72.488	1.00 17.67
	MOTA	4213	CD1	ILE .			34.027	57.047	74.576	1.00 23.37
_	ATOM	4214	N	ASN A	A.	530	30.440	59.418	70.641	1.00 16.94
5	MOTA	4215	CA	ASN .	A	530	29.151	59.417	69.969	1.00 20.74
	MOTA	4216	С	ASN .	A	530	28.522	58.081	69.611	1.00 25.19
	ATOM	4217	0	ASN .	A	530	27.369	58.026	69.217	1.00 23.63
	ATOM	4218	СВ	ASN I	A	530	28.937	60.566	68.986	1.00 39.14
	ATOM	4219	CG	ASN .			28.612	61.852	69.749	1.00 80.92
10	ATOM	4220		ASN .			27.639	61.959	70.533	1.00 86.83
10	ATOM	4221		ASN			29.470	62.838	69.537	1.00 45.14
									69.759	1.00 19.99
	ATOM	4222	N	ASN A			29.306	57.019		
	ATOM	4223	CA	ASN A			28.875	55.667	69.494	1.00 18.88
16	MOTA	4224	С	ASN .			27.637	55.452	70.350	1.00 15.67
15	MOTA	4225	0	ASN A			27.671	55.661	71.566	1.00 15.13
	MOTA	4226	СВ	ASN I			30.045	54.762	69.928	1.00 11.62
	ATOM	4227	CG	ASN A	A.	531	29.705	53.292	69.866	1.00 26.73
	ATOM	4228		ASN A			28.724	52.832	70.471	1.00 21.97
	MOTA	4229	ND2	ASN I	A.	531	30.510	52.554	69.105	1.00 18.28
20	ATOM	4230	N	SER A	A.	532	26.551	55.074	69.715	1.00 12.93
	ATOM	4231	CA	SER I	Ą	532	25.293	54.931	70.456	1.00 15.99
	ATOM	4232	С	SER I	A.	532	25.248	53.889	71.565	1.00 17.50
	ATOM	4233	0	SER I			24.631	54.066	72.611	1.00 20.47
	ATOM	4234	СВ	SER			24.088	54.846	69.518	1.00 17.43
25	ATOM	4235	0G	SER			24.274	53.791	68.570	1.00 24.83
	ATOM	4236	N	GLU A			25.876	52.753	71.337	1.00 14.65
				GLU A						1.00 14.03
	ATOM	4237	CA		-		25.835	51.708	72.339	
	ATOM	4238	C	GLU I			26.497	52.181	73.614	1.00 19.42
20	ATOM	4239	0	GLU A			25.964	52.028	74.725	1.00 15.25
30	ATOM	4240	CB	GLU A			26.547	50.464	71.780	1.00 13.22
	ATOM	4241	CG	GLU I			25.712	49.829	70.637	1.00 9.87
	MOTA	4242	CD	GLU 1			24.531	49.055	71.162	1.00 21.99
	ATOM	4243		GLU 1			24.395	48.722	72.319	1.00 18.49
~ ~	ATOM	4244	OE2	GLU A			23.625	48.805	70.267	1.00 16.24
35	MOTA	4245	N	ILE A	A	534	27.686	52.747	73.415	1.00 15.22
	MOTA	4246	CA	ILE A	A	534	28.495	53.265	74.512	1.00 14.94
	MOTA	4247	С	ILE A	A	534	27.793	54.420	75.228	1.00 14.04
	MOTA	4248	0	ILE A	Ą	534	27.677	54.447	76.461	1.00 17.42
	MOTA	4249	CB	ILE A	Ą	534	29.926	53.655	74.077	1.00 17.98
40	MOTA	4250	CG1	ILE A			30.733	52.461	73.557	1.00 13.41
	ATOM	4251		ILE A			30.680	54.387	75.216	1.00 15.34
	MOTA	4252		ILE A			32.003	52.906	72.825	1.00 17.39
	ATOM	4253	N	ARG A			27.310	55.402	74.475	1.00 14.39
	ATOM	4254	CA	ARG A			26.611	56.511	75.135	1.00 17.35
45	ATOM	4255	C	ARG A			25.347	56.016	75.868	1.00 17.53
	ATOM	4256	Ö	ARG			24.998		76.973	1.00 15.05
	ATOM	4257	СВ	ARG			26.232	57.576	74.108	1.00 16.26
	ATOM	4258	CG	ARG A			25.583	58.826	74.730	1.00 8.73
50	ATOM	4259	CD	ARG .			25.392	59.919	73.666	1.00 11.55
50	ATOM	4260	NE	ARG .			25.126	61.228	74.251	1.00 15.18
	ATOM	4261	CZ	ARG :			26.049	62.043	74.761	1.00 26.20
	ATOM	4262		ARG I			27.354	61.765	74.769	1.00 20.26
	ATOM	4263	NH2	ARG .	Α	535	25.636	63.189	75.286	1.00 19.91
	ATOM	4264	N	PHE I	A.	536	24.632	55.126	75.233	1.00 11.71
55	ATOM	4265	CA	PHE .	A	536	23.462	54.627	75.876	1.00 9.63
	MOTA	4266	С	PHE .	Α	536	23.825	54.092	77.233	1.00 13.77
	ATOM	4267	0	PHE .	A	536	23.256	54.497	78.231	1.00 13.81
	ATOM	4268	CB	PHE			22.906	53.471	75.016	1.00 10.66
	ATOM	4269	CG	PHE			21.865	52.621	75.710	1.00 14.64
60	MOTA	4270		PHE .			20.699	53.158	76.256	1.00 13.81
50										
	MOTA	4271		PHE .			22.052	51.242	75.840	1.00 19.23
	ATOM	4272		PHE .			19.762	52.325	76.877	1.00 14.23
	MOTA	4273		PHE .			21.127	50.395	76.457	1.00 16.53
	ATOM	4274	CZ	PHE .	A	536	19.960	50.945	76.984	1.00 11.63

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	ATOM	4275	N	ARG A 5	37 :	24.750	53.131	77.282	1.00	12.89	
	MOTA	4276	CA	ARG A 5		25.110	52.536	78.577		11.92	
	MOTA	4277	С	ARG A 5		25.734	53.520	79.575		16.03	
_	MOTA	4278	0	ARG A 5	37 :	25.525	53.436	80.793	1.00	10.71	
5	MOTA	4279	CB	ARG A 5	37 :	25.949	51.253	78.505	1.00	11.85	
	MOTA	4280	ÇG	ARG A 5	37 :	25.274	50.113	77.776	1.00	8.59	
	MOTA	4281	CD	ARG A 5	37 :	26.142	48.857	77.547	1.00	17.16	
	MOTA	4282	ΝE	ARG A 5	37 :	25.233	47.845	76.992	1.00	16.12	
10	MOTA	4283	CZ	ARG A 5		24.869	47.824	75.716	1.00	25.23	
10	MOTA	4284		ARG A 5		25.414	48.641	74.802	1.00	13.55	
	ATOM	4285	NH2	ARG A 5		23.946	46.947	75.356	1.00	16.52	
	MOTA	4286	N	TRP A 5		26.544	54.451	79.060	1.00	13.16	
	MOTA	4287	CA	TRP A 5		27.170	55.440	79.907	1.00	10.77	
1.5	MOTA	4288	C	TRP A 5		26.079	56.286	80.532	1.00	13.43	
15	MOTA	4289	0	TRP A 5	38 :	26.048	56.509	81.736	1.00	13.45	
	MOTA	4290	CB	TRP A 5	38 :	28.036	56.318	78.996	1.00	12.97	
	MOTA	4291	CG	TRP A 5	38 :	28.489	57.611	79.604	1.00	12.46	
	MOTA	4292		TRP A 5		28.330	58.807	79.019	1.00	13.56	
20	MOTA	4293		TRP A 5		29.199	57.826	80.857	1.00	11.95	
20	MOTA	4294		TRP A 5		28.932	59.757	79.801	1.00	12.84	
	ATOM	4295		TRP A 5		29.455	59.208	80.938	1.00	12.68	
	MOTA	4296		TRP A 5		29.667	57.000	81.914	1.00	11.87	
	ATOM	4297		TRP A 5		30.115	59.780	82.024	1.00	10.55	
0.5	MOTA	4298		TRP A 5		30.334	57.557	82.994	1.00	12.97	
25	ATOM	4299	CH2	TRP A 5		30.537	58.953	83.046	1.00	14.62	
	MOTA	4300	N	LEU A 5		25.160	56.761	79.714	1.00	8.88	
	ATOM	4301	CA	LEU A 5		24.132	57.592	80.310	1.00	11.52	
	MOTA	4302	С	LEU A 5		23.249	56.878	81.335	1.00	17.64	
10	ATOM	4303	0	LEU A 5		22.775	57.470	82.308	1.00	15.29	
30	MOTA	4304	CB	LEU A 5		23.253	58.271	79.251		13.68	
	ATOM	4305	CG	LEU A 5		23.977	59.247	78.323		15.24	
	MOTA	4306		LEU A 5		22.989	59.923	77.388		13.27	
	ATOM	4307		LEU A 5		24.693	60.312	79.121		13.80	
35	MOTA	4308	N	ARG A 5		22.988	55.583	81.115		14.05	
33	ATOM	4309	CA	ARG A 5		22.176	54.850	82.067		11.62	
	MOTA	4310	С	ARG A 5		22.880	54.792	83.418		13.27	•
	ATOM	4311	0	ARG A 5		22.277	54.942	84.488		12.86	
	MOTA	4312	CB	ARG A 5		21.883	53.426	81.584		12.88	
40	ATOM	4313	CG	ARG A 5		20.894	53.325	80.408	1.00	8.76	
70	ATOM ATOM	4314	CD	ARG A 5		20.453	51.857	80.281		14.08	
		4315	NE	ARG A 5		19.442	51.552	81.288		11.93	
	MOTA	4316	CZ	ARG A 5		18.856	50.391	81.486		16.72	
	ATOM	4317		ARG A 5		19.145	49.317	80.774		16.31	
45	MOTA	4318		ARG A 5		17.926	50.330	82.416	1.00	9.86	
73	ATOM ATOM	4319 4320	N ~ r	LEU A 5		24.189	54.546	83.338		10.69	
			CA	LEU A 5			54.432	84.526		9.89	
	ATOM ATOM	4321 4322	0	LEU A 5		25.017 24.961	55.712	85.353		12.38	
	ATOM	4323	СВ	LEU A 5			55.749	86.598		12.85	
50	MOTA	4324	CG	LEU A 5		26.482 27.519	54.119 53.986	84.074 85.194		8.98 13.06	
-	ATOM	4325		LEU A 5		27.144	52.889	86.196		11.30	
	ATOM	4326		LEU A 5		28.904	53.697	84.606		11.15	
	ATOM	4327	N	CYS A 5		25.097	56.800	84.603		14.91	
	ATOM	4328	CA	CYS A 5		25.043	58.147	85.153		15.42	
55	ATOM	4329	C	CYS A 5		23.719	58.436	85.881		12.87	
	ATOM	4330	ŏ	CYS A 5		23.689	58.913	87.019		13.42	
	ATOM	4331	СВ	CYS A 5		25.234	59.166	83.987		14.29	
	ATOM	4332	SG	CYS A 5		26.987	59.258	83.516		15.48	
	ATOM	4333	N	ILE A 5		22.620	58.161	85.188		11.12	
60	ATOM	4334	CA	ILE A 5		21.287	58.388	85.723		12.92	
	ATOM	4335	C	ILE A 5		21.237	57.514	86.912		15.64	
	ATOM	4336	o	ILE A 5		20.565	57.959	87.965		14.40	
	MOTA	4337	CB	ILE A 5		20.193	58.168	84.670		14.69	
	ATOM	4338		ILE A 5		20.155	59.208	83.580		14.31	
				1. 0	'		-2.200	55.500	1.00		

	MOTA	4339	CG2	ILE A	. 543	18.785	58.292	85.281	1.00 11.05
	ATOM	4340	CD1	ILE A	543	20.139	60.651	84.095	1.00 13.56
	MOTA	4341	N	GLN A		21.362	56.237	86.729	1.00 13.09
	MOTA	4342	CA	GLN A	544	21.144	55.310	87.829	1.00 12.90
5	MOTA	4343	С	GLN A	544	22.017	55.629	89.015	1.00 16.30
_									
	ATOM	4344	0	GLN A	1 544	21.649	55.299	90.140	1.00 12.81
	ATOM	4345	CB	GLN A	544	21.287	53.846	87.396	1.00 14.77
	ATOM	4346	ÇG	GLN A	544	20.159	53.374	86.449	1.00 13.43
- 0	ATOM	4347	CD	GLN A	1 544	20.399	51.967	85.889	1.00 16.60
10	ATOM	4348	OE1	GLN A	544	20.048	51.639	84.754	1.00 18.63
	MOTA	4349	NE2	GLN A		20.976	51.100	86.695	1.00 7.00
	ATOM	4350	N	SER A	1 545	23.143	56.296	88.748	1.00 13.80
	ATOM	4351	CA	SER A	545	24.058	56.712	89.799	1.00 13.01
	ATOM	4352	C	SER A		23.715	58.091	90.368	1.00 17.51
1.5									
15	ATOM	4353	0	SER A	1 545	24.429	58.656	91.189	1.00 17.76
	ATOM	4354	CB	SER A	545	25.495	56.649	89.330	1.00 14.26
		4355	OG					89.138	
	ATOM			SER A		25.735	55.273		1.00 15.74
	ATOM	4356	N	LYS A	1 546	22.586	58.609	89.924	1.00 13.25
	MOTA	4357	CA	LYS A	546	22.029	59.857	90.370	1.00 14.37
20	ATOM	4358	C	LYS A		22.771	61.109	89.963	1.00 16.71
20									
	MOTA	4359	0	LYS A	1 546	22.770	62.106	90.698	1.00 16.30
	ATOM	4360	CB	LYS A	546	21.850	59.890	91.878	1.00 15.93
	ATOM	4361	CG	LYS A		21.320	58.602	92.470	1.00 16.80
	MOTA	4362	CD	LYS A	1 546	19.919	58.370	91.982	1.00 13.30
25	MOTA	4363	CE	LYS A	. 546	19.280	57.148	92.617	1.00 24.82
	MOTA	4364	NZ	LYS A	546	18.052	56.742	91.905	1.00 17.92
	ATOM	4365	N	TRP A	1 547	23.418	61.104	88.827	1.00 15.72
	ATOM	4366	CA	TRP A	\$ 547	24.103	62.319	88.438	1.00 16.24
	ATOM	4367	С	TRP A	547	23.132	63.246	87.727	1.00 18.78
30									
30	ATOM	4368	0	TRP A		22.760	63.007	86.605	1.00 16.35
	MOTA	4369	CB	TRP A	547	25.261	61.999	87.505	1.00 15.42
	ATOM	4370	CG	TRP A		26.211	63.156	87.344	1.00 16.84
	ATOM	4371	CD1	TRP A		26.177	64.386	87.949	1.00 18.62
	ATOM	4372	CD2	TRP A	547	27.349	63.140	86.479	1.00 15.94
35	ATOM	4373	NE1	TRP A	547	27.267	65.115	87.543	1.00 16.22
	ATOM	4374	CE2	TRP A		27.997			
							64.380	86.629	1.00 18.06
	MOTA	4375		TRP A		27.900	62.159	85.647	1.00 16.57
	ATOM	4376	CZ2	TRP A	547	29.186	64.662	85.928	1.00 16.68
	ATOM	4377	CZ3	TRP A		29.068	62.459	84.966	1.00 19.03
40									
40	MOTA	4378	CH2	TRP A		29.693	63.709	85.079	1.00 18.04
	ATOM	4379	N	GLU A	1 548	22.706	64.327	88.376	1.00 13.95
	ATOM	4380	CA	GLU A	548	21.745	65.238	87.780	1.00 13.21
	ATOM	4381	С	GLU A		22.176	65.856	86.468	1.00 17.27
	ATOM	4382	0	GLU A	1 548	21.352	66.149	85.617	1.00 18.18
45	MOTA	4383	СВ	GLU A	548	21.375	66.370	88.771	1.00 15.29
	MOTA	4384	CG	GLU A		20.751	65.878	90.109	1.00 19.42
	MOTA	4385	CD	GLU A	1 548	20.207	67.018	90.953	1.00 33.00
	ATOM	4386		GLU A		19.775	68.057	90.492	1.00 46.88
50	ATOM	4387		GLU A		20.224	66.791	92.239	1.00 30.89
50	MOTA	4388	N	ASP A	1 549	23.477	66.105	86,285	1.00 17.99
	MOTA	4389	CA	ASP A	549	23.929	66.735	85.054	1.00 10.58
		4390							
	MOTA		С	ASP A		23.666	65.896	83.853	1.00 12.02
	MOTA	4391	0	ASP A	1 549	23.629	66.354	82.709	1.00 18.87
	ATOM	4392	CB	ASP A	549	25.426	67.034	85.126	1.00 11.36
55									
رر	MOTA	4393	CG	ASP A		25.703	68.058	86.214	1.00 22.44
	MOTA	4394	OD1	ASP A	1 549	25.396	69.227	86.150	1.00 25.44
	ATOM	4395	OD2	ASP A	549	26.252	67.575	87.271	1.00 25.86
	ATOM	4396	N	ALA A		23.511	64.624	84.122	1.00 13.24
	ATOM	4397	CA.	ALA A	\$ 550	23.269	63.709	83.004	1.00 14.70
60	MOTA	4398	С	ALA A		21.845	63.707	82.473	1.00 17.89
	MOTA	4399	0	ALA A		21.598	63.132	81.389	1.00 15.28
	ATOM	4400	CB	ALA A	¥ 550	23.713	62.280	83.335	1.00 14.77
	ATOM	4401	N	ILE A		20.926	64.308	83.251	1.00 16.18
	MOTA	4402	CA	ILE A	7 221	19.497	64.377	82.914	1.00 16.05

	ATOM	4403	С	ILE A	551	19.182	64.894	81.523	1.00 18.70
	ATOM	4404	0	ILE A		18.441	64.290	80.736	1.00 19.01
	ATOM	4405	СВ	ILE A		18.701	65.139	83.971	1.00 19.52
	ATOM	4406	CG1		–	18.692	64.281	85.232	1.00 20.39
5	ATOM	4407	CG2	ILE A		17.251	65.361	83.512	
•	ATOM	4408							1.00 12.65
			CD1			18.167	64.995	86.485	1.00 15.78
	ATOM	4409	N	PRO A		19.748	66.038	81.197	1.00 18.48
	ATOM	4410	CA	PRO A		19.487	66.600	79.888	1.00 16.36
10	ATOM	4411	С	PRO A		20.084	65.736	78.795	1.00 19.64
10	MOTA	4412	0	PRO A	552	19.551	65.606	77.700	1.00 16.94
	ATOM	4413	CB	PRO A	552	20.125	67.995	79.870	1.00 18.41
	ATOM	4414	CG	PRO A	552	21.001	68.070	81.116	1.00 24.69
	ATOM	4415	CD	PRO A		20.504	66.981	82.059	1.00 17.97
	ATOM	4416	N	LEU A		21.226	65.144	79.075	1.00 17.67
15	ATOM	4417	CA	LEU A		21.852	64.302	78.072	1.00 17.07
	ATOM	4418	C						
	ATOM			LEU A		20.940	63.101	77.795	1.00 19.23
		4419	0	LEU A		20.704	62.655	76.681	1.00 16.64
	ATOM	4420	CB	LEU A		23.275	63.819	78.501	1.00 13.81
20	ATOM	4421	CG	LEU A		24.239	64.905	79.002	1.00 19.25
20	ATOM	4422	CD1			25.606	64.289	79.247	1.00 17.04
	ATOM	4423	CD2	LEU A	553	24.412	65.997	77.955	1.00 18.39
	MOTA	4424	N	ALA A	554	20.440	62.529	78.867	1.00 17.65
	ATOM	4425	CA	ALA A	554	19.614	61.341	78.730	1.00 15.25
	ATOM	4426	С	ALA A		18.330	61.673	78.029	1.00 19.37
25	ATOM	4427	0	ALA A		17.896	60.913	77.157	1.00 14.92
	ATOM	4428	СВ	ALA A		19.415	60.697	80.094	1.00 12.41
	ATOM	4429	N	LEU A		17.746	62.821	78.410	
	ATOM	4430							1.00 14.59
			CA	LEU A		16.514	63.224	77.750	1.00 17.50
30	ATOM	4431	C	LEU A		16.686	63.445	76.249	1.00 16.25
30	MOTA	4432	0	LEU A		15.822	63.168	75.435	1.00 15.71
	MOTA	4433	CB	LEU A		15.921	64.531	78.318	1.00 18.40
	ATOM	4434	CG	LEU A		15.298	64.374	79.695	1.00 23.82
	ATOM	4435		LEU A		15.153	65.771	80.333	1.00 23.08
	ATOM	4436	CD2	LEU A	555	13.934	63.692	79.583	1.00 18.63
35	MOTA	4437	N	LYS A	556	17.827	64.008	75.899	1.00 17.73
	ATOM	4438	CA	LYS A		18.139	64.330	74.536	1.00 15.70
	ATOM	4439	С	LYS A		18.285	63.076	73.702	1.00 19.09
	MOTA	4440	0	LYS A		17.690	62.959	72.626	1.00 19.08
	ATOM	4441	СВ	LYS A		19.380	65.206	74.530	1.00 15.52
40	ATOM	4442	CG	LYS A		19.729	65.769	73.163	
	ATOM	4443	CD						1.00 41.74
				LYS A		21.020	66.590	73.160	1.00 77.82
	ATOM	4444	CE	LYS A		21.851	66.449	71.883	1.00 79.74
	ATOM	4445	NZ	LYS A		22.446	67.709	71.404	1.00 60.52
15	ATOM	4446	N	MET A		19.089	62.128	74.207	1.00 15.27
45	ATOM	4447	CA	MET A		19.294	60.904	73.446	1.00 13.47
	ATOM	4448	С	MET A	557	17.997	60.140	73.264	1.00 16.45
	ATOM	4449	0	MET A	557	17.723	59.507	72.253	1.00 15.63
	ATOM	4450	CB	MET A	557	20.312	59.998	74.165	1.00 14.26
	ATOM	4451	CG	MET A		20.499	58.682	73.405	1.00 13.00
50	MOTA	4452	SD	MET A		21.984	57.796	73.915	1.00 16.44
	ATOM	4453	CE	MET A	557	22.027	56.574	72.596	1.00 12.39
	ATOM	4454	N	ALA A		17.200	60.181		
	ATOM	4455						74.327	1.00 18.08
			CA	ALA A		15.955	59.438	74.323	1.00 17.49
55	ATOM	4456	С	ALA A		14.968	59.922	73.292	1.00 23.08
"	ATOM	4457	0	ALA A		14.221	59.153	72.723	1.00 21.14
	ATOM	4458	CB	ALA A		15.316	59.439	75.705	1.00 16.55
	ATOM	4459	N	THR A	559	14.951	61.220	73.082	1.00 18.89
	ATOM	4460	CA	THR A		13.980	61.798	72.186	1.00 19.50
	ATOM	4461	С	THR A		14.542	62.125	70.830	1.00 22.12
60	ATOM	4462	0	THR A		13.804	62.219	69.862	1.00 23.28
	ATOM	4463	СВ	THR A		13.418	63.078	72.824	1.00 25.23
	ATOM	4464		THR A		14.493	63.999	73.001	1.00 23.23
	ATOM	4465		THR A			62.723		
	ATOM					12.734		74.147	1.00 18.19
	AT ON	4466	N	GLU A	<b>3</b> 00	15.841	62.316	70.756	1.00 16.68

									_	
	ATOM	4467	ÇA	GLU	Α	560	16.399	62.646	69.479	1.00 18.60
	ATOM	4468	С	GLU	Α	560	16.492	61.448	68.545	1.00 26.45
	ATOM	4469	0	GLU	Α	560	16.714	61.608	67.344	1.00 21.93
	ATOM	4470	CB	GLU			17.748	63.317	69.640	1.00 21.55
5	ATOM	4471	CG	GLU			17.623	64.757	70.136	1.00 38.31
_				GLU			18.990	65.352	70.221	1.00 55.37
	ATOM	4472	CD							
	ATOM	4473	OE1				20.007	64.691	70.053	1.00 40.21
	ATOM	4474	OE2	GLU	A	560	18.946	66.627	70.504	1.00 55.04
	MOTA	4475	N	GLN	Α	561	16.344	60.251	69.101	1.00 20.47
10	ATOM	4476	CA	GLN	A.	561	16.340	59.043	68.291	1.00 19.24
	ATOM	4477	С	GLN	Δ	561	15.283	58.189	68.921	1.00 18.06
	ATOM	4478	ō	GLN			14.874	58.520	70.022	1.00 16.87
									68.136	1.00 20.45
	ATOM	4479	CB	GLN			17.684	58.307		
	ATOM	4480	CG	GLN			18.341	58.001	69.495	1.00 21.17
15	ATOM	4481	CD	GLN	A	561	17.692	56.815	70.165	1.00 21.31
	ATOM	4482	OE1	GLN	Α	561	17.302	56.877	71.344	1.00 23.07
	ATOM	4483	NE2	GLN	Α	561	17.543	55.758	69.379	1.00 11.21
	ATOM	4484	N	GLY			14.821	57.148	68.239	1.00 16.15
	ATOM	4485	CA	GLY			13.758	56.367	68.827	1.00 14.79
20									68.750	
20	ATOM	4486	C	GLY			13.919	54.872		1.00 17.42
	MOTA	4487	0	GLY			12.941	54.134	68.842	1.00 22.06
	MOTA	4488	N	ARG			15.152	54.424	68.598	1.00 18.35
	ATOM	4489	CA	ARG	Α	563	15.453	52.990	68.617	1.00 18.80
	MOTA	4490	С	ARG	Α	563	15.023	52.501	70.018	1.00 16.67
25	MOTA	4491	0	ARG	Α	563	15.518	52.925	71.085	1.00 14.27
	ATOM	4492	СВ	ARG			16.949	52.812	68.321	1.00 16.78
	ATOM	4493	CG	ARG			17.394	51.363	68.218	1.00 14.43
				ARG						
	MOTA	4494	CD				18.911	51.276	68.095	1.00 15.41
20	ATOM	4495	NE	ARG			19.423	49.897	68.119	1.00 19.33
30	ATOM	4496	CZ	ARG			20.683	49.669	67.774	1.00 19.66
	MOTA	4497		ARG			21.482	50.681	67.417	1.00 10.67
	MOTA	4498	NH2	ARG	Α	563	21.148	48.428	67.779	1.00 13.38
	ATOM	4499	N	MET	Α	564	14.003	51.648	70.069	1.00 13.84
	ATOM	4500	CA	MET	Α	564	13.447	51.247	71.369	1.00 13.05
35	ATOM	4501	С	MET			14.443	50.787	72.419	1.00 18.69
	ATOM	4502	ŏ	MET			14.257	50.973	73.628	1.00 12.40
				MET			12.315	50.212	71.198	1.00 12.40
	ATOM	4503	CB							
	ATOM	4504	CG	MET			11.159	50.825	70.424	1.00 16.20
40	ATOM	4505	SD	MET			9.692	49.805	70.530	1.00 21.23
40	MOTA	4506	CE	MET	Α	564	10.114	48.581	69.265	1.00 17.64
	ATOM	4507	N	LYS	Α	565	15.464	50.097	71.892	1.00 16.37
	MOTA	4508	CA	LYS	Α	565	16.521	49.537	72.701	1.00 13.75
	ATOM	4509	С	LYS	Α	565	17.129	50.623	73.582	1.00 16.90
	MOTA	4510	ō	LYS			17.493	50.376	74.735	1.00 14.97
45	ATOM	4511	СВ	LYS			17.549	48.885	71.767	1.00 11.37
73										
	MOTA	4512	CG	LYS			18.793		72.459	1.00 12.72
	MOTA	4513	CD	LYS			19.962	48.100	71.525	1.00 17.72
	MOTA	4514	CE	LYS	А	565	21.060	47.336	72.239	1.00 19.39
	MOTA	4515	NZ	LYS	Α	565	22.030	46.721	71.308	1.00 15.47
50	ATOM	4516	N	PHE	A	566	17.211	51.847	73.057	1.00 12.01
	MOTA	4517	CA	PHE			17.801	52.912	73.846	1.00 12.25
	MOTA	4518	c	PHE			16.739	53.770	74.509	1.00 15.74
		4519	ō	PHE			16.843	54.177	75.661	1.00 12.91
	MOTA									
E E	MOTA	4520	CB	PHE			18.641	53.814	72.932	1.00 12.87
55	MOTA	4521	CG	PHE			19.744	53.117	72.165	1.00 14.44
	MOTA	4522		PHE			20.465	52.053	72.714	1.00 13.84
	MOTA	4523	CD2	PHE	Α	566	20.111	53.577	70.894	1.00 15.31
	ATOM	4524		PHE			21.510	51.434	72.014	1.00 13.86
	ATOM	4525		PHE			21.145	52.977	70.172	1.00 14.39
60	ATOM	4526	CZ	PHE			21.849	51.910	70.744	1.00 15.76
00									73.724	1.00 16.10
	MOTA	4527	N	THR			15.721	54.095		
	MOTA	4528	CA	THR			14.642	54.966	74.184	1.00 14.70
	MOTA	4529	С	THR			13.876	54.518	75.423	1.00 14.32
	ATOM	4530	0	THR	Α	567	13.615	55.315	76.346	1.00 14.88

	ATOM	4531	CB	THR A	567	13.707	55.409	73.030	1.00 14.81
	ATOM	4532	OG1			14.465	56.204	72.148	1.00 15.28
	ATOM	4533		THR A		12.520	56.196	73.596	1.00 14.89
		_							
5	MOTA	4534	N	ARG A		13.478	53.245	75.412	1.00 12.20
)	MOTA	4535	CA	ARG A		12.697	52.764	76.533	1.00 13.57
	MOTA	4536	С	ARG A	568	13.393	52.797	77.876	1.00 14.85
	MOTA	4537	0	ARG A	568	12.896	53.312	78.861	1.00 14.39
	ATOM	4538	СВ	ARG A	568	12.133	51.400	76.218	1.00 13.49
	ATOM	4539	CG	ARG A		11.021	51.467	75.155	1.00 14.02
10	MOTA	4540	CD	ARG A		10.387	50.098	74.884	1.00 9.84
10									
	ATOM	4541	NE	ARG A		9.662	49.607	76.063	1.00 13.61
	MOTA	4542	CZ	ARG A		9.236	48.368	76.197	1.00 17.32
	MOTA	4543	NH1	ARG A	568	9.471	47.427	75.275	1.00 13.23
	MOTA	4544	NH2	ARG A	568	8.566	48.053	77.293	1.00 13.32
15	ATOM	4545	N	PRO A	569	14.577	52.237	77.948	1.00 12.95
	MOTA	4546	CA	PRO A		15.294	52.206	79.229	1.00 10.82
	ATOM	4547	С	PRO A		15.810	53.574	79.653	1.00 15.13
	ATOM	4548	0	PRO A		15.977	53.859	80.849	1.00 14.45
	ATOM	4549	CB	PRO A	569	16.479	51.262	79.000	1.00 14.29
20	ATOM	4550	CG	PRO A	569	16.245	50.553	77.659	1.00 17.55
	ATOM	4551	CD	PRO A		15.224	51.385	76.897	1.00 16.15
	ATOM	4552	N	LEU A		16.069	54.462	78.685	1.00 15.08
	ATOM								
		4553	CA	LEU A		16.502	55.813	79.082	1.00 16.35
25	ATOM	4554	С	LEU A		15.321	56.509	79.784	1.00 19.34
25	ATOM	4555	0	LEU A	570	15.401	57.045	80.898	1.00 16.13
	MOTA	4556	CB	LEU A	570	16.944	56.615	77.840	1.00 16.51
	MOTA	4557	CG	LEU A	570	18.372	56.269	77.386	1.00 18.67
	MOTA	4558		LEU A		18.737	57.028	76.110	1.00 16.85
	ATOM	4559		LEU A		19.392	56.601	78.486	1.00 14.01
30									
30	MOTA	4560	N	PHE A		14.161	56.435	79.129	1.00 14.02
	MOTA	4561	CA	PHE A		12.978	57.007	79.732	1.00 14.67
	ATOM	4562	С	PHE A	571	12.684	56.323	81.054	1.00 18.94
	ATOM	4563	0	PHE A	571	12.257	56.933	82.030	1.00 18.09
	ATOM	4564	CB	PHE A	571	11.721	56.805	78.872	1.00 14.94
35	ATOM	4565	CG	PHE A		11.462	57.993	78.014	1.00 17.38
	ATOM	4566		PHE A		11.035	59.194	78.591	1.00 18.00
	ATOM	4567		PHE A		11.634	57.902	76.633	1.00 19.72
	ATOM	4568		PHE A		10.768	60.317	77.805	1.00 17.86
40	ATOM	4569		PHE A		11.358	59.016	75.836	1.00 23.80
40	ATOM	4570	CZ	PHE A	571	10.933	60.213	76.422	1.00 22.47
	ATOM	4571	N	LYS A	572	12.839	55.023	81.080	1.00 14.21
	ATOM	4572	CA	LYS A		12,530	54.361	82.325	1.00 14.07
	ATOM	4573	C	LYS A		13.476	54.788	83.444	1.00 16.22
	ATOM	4574	ō	LYS A				84.620	1.00 16.74
45				_		13.123	54.998		
45	ATOM	4575	CB	LYS A		12.533	52.850	82.147	1.00 15.58
	ATOM	4576	CG	LYS A		11.179	52.157	82.243	1.00 32.41
	ATOM	4577	CD	LYS A	572	11.197	50.722	81.697	1.00 46.79
	ATOM	4578	CE	LYS A	572	11.249	50.620	80.160	1.00 56.38
	ATOM	4579	NZ	LYS A	572	11.823	49.373	79.593	1.00 42.31
50	ATOM	4580	N	ASP A		14.735	54.914	83.089	1.00 14.00
	MOTA	4581	CA	ASP A		15.671	55.286	84.148	1.00 15.33
	MOTA	4582	С	ASP A		15.394	56.675	84.662	1.00 15.63
	ATOM	4583	0	ASP A		15.531	56.959	85.850	1.00 15.64
	ATOM	4584	CB	ASP A	573	17.137	55.288	83.627	1.00 14.94
55	ATOM	4585	CG	ASP A	573	17.688	53.889	83.452	1.00 22.26
	MOTA	4586		ASP A		17.054	52.891	83.773	1.00 18.66
	ATOM	4587		ASP A		18.923	53.848	82.983	1.00 18.27
	MOTA								
		4588	N	LEU A		15.090	57.554	83.708	1.00 12.68
<b>6</b> 0	ATOM	4589	CA	LEU A		14.851	58.926	84.092	1.00 11.33
60	MOTA	4590	С	LEU A		13.611	59.053	84.970	1.00 22.78
	MOTA	4591	0	LEU A	574	13.513	59.923	85.837	1.00 18.71
	ATOM	4592	CB	LEU A	574	14.682	59.802	82.863	1.00 10.39
	MOTA	4593	CG	LEU A		15.953	60.021	82.061	1.00 16.41
	ATOM	4594		LEU A		15.501	60.352	80.630	1.00 16.48
	011	1371	CDI	א יים	5,7	43.301	00.332	00.000	1.00 10.40

	3000	4505	CD2	7 2017 3 60	, <u>a</u>	16 305	61 200	82.608	1 00	12.08
	ATOM	4595		LEU A 57		16.785	61.200			
	ATOM	4596	N	ALA A 57		12.638	58.173	84.726		17.79
	MOTA	4597	CA	ALA A 57	75	11.437	58.235	85.500	1.00	15.87
	ATOM	4598	С	ALA A 57	75	11.720	57.682	86.856	1.00	17.98
5	ATOM	4599	0	ALA A 5		11.050	58.033	87.801		17.45
_			СВ					84.820		17.20
	MOTA	4600		ALA A 57		10.325	57.449			
	MOTA	4601	N	ALA A 57		12.703	56.801	86.972		14.91
	ATOM	4602	CA	ALA A 57	76	13.024	56.222	88.272		12.59
	ATOM	4603	С	ALA A 57	76	13.930	57.135	89.097	1.00	19.97
10	MOTA	4604	0	ALA A 57		14.140	56.920	90.281		22.87
	MOTA	4605	CB	ALA A 57		13.732	54.881	88.146		16.01
	MOTA	4606	N	PHE A 57		14.474	58.152	88.469		15.13
	ATOM	4607	CA	PHE A 57	77	15.337	59.105	89.161	1.00	15.19
	ATOM	4608	С	PHE A 57	17	14.412	60.219	89.660	1.00	19.07
15	ATOM	4609	0	PHE A 57	17	13.790	60.932	88.868	1.00	16.74
	ATOM	4610	CB	PHE A 57		16.447	59.652	88.210		14.02
	ATOM	4611	CG	PHE A 57		17.494	60.595	88.820		15.39
	ATOM	4612	CD1	PHE A 57	!7	17.678	60.707	90.202	1.00	17.32
	MOTA	4613	CD2	PHE A 57	17	18.295	61.380	87.983	1.00	15.42
20	ATOM	4614	CE1	PHE A 57	7	18.646	61.570	90.727	1.00	18.05
	ATOM	4615		PHE A 57		19.272	62.236	88.483		18.23
	ATOM	4616	CŻ	PHE A 57		19.442	62.330	89.866		18,02
	MOTA	4617	N	ASP A 57	8	14.285	60.335	90.983	1.00	19.21
	ATOM	4618	CA	ASP A 57	18	13.394	61.327	91.584	1.00	19.27
25	ATOM	4619	С	ASP A 57	8	13.568	62.692	90.981	1.00	18.95
	ATOM	4620	ō	ASP A 57		12.577	63.347	90.660		18.48
								93.130		28.60
	ATOM	4621	CB	ASP A 57		13.457	61.342			
	ATOM	4622	CG	ASP A 57		14.714	61.992	93.690		55.79
	ATOM	4623	OD1	ASP A 57		15.779	62.135	93.064	1.00	45.74
30	ATOM	4624	OD2	ASP A 57	8	14.512	62.401	94.929	1.00	67.85
	ATOM	4625	N	LYS A 57	9	14.839	63.083	90.791	1.00	17.12
	ATOM	4626	CA	LYS A 57		15.185	64.352	90.194		13.88
	ATOM	4627	С	LYS A 57		14.693	64.569	88.758		21.03
~-	ATOM	4628	0	LYS A 57		14.338	65.689	88.386	1.00	20.91
35	ATOM	4629	CB	LYS A 57	9	16.669	64.621	90.293	1.00	13.46
	ATOM	4630	CG	LYS A 57	19	17.159	64.570	91.724	1.00	33.01
	ATOM	4631	CD	LYS A 57		16.890	65.878	92.442		55.78
	ATOM	4632	CE	LYS A 57		16.292	65.662	93.816		58.11
40	ATOM	4633	ΝZ	LYS A 57		17.121	66.260	94.867		54.50
40	ATOM	4634	N	SER A 58		14.646	63.553	87.897		14.45
	MOTA	4635	CA	SER A 58	10	14.187	63.844	86.540	1.00	13.57
	ATOM	4636	С	SER A 58	10	12.798	63.298	86.228	1.00	20.81
	ATOM	4637	0	SER A 58		12.313	63.384	85.103	1.00	19.66
	ATOM	4638	СВ	SER A 58		15.113	63.091	85.601		12.97
45										
43	MOTA	4639	OG	SER A 58		15.350	61.809	86.186		17.95
	ATOM	4640	N	HIS A 58	31	12.184	62.664	87.196	1.00	16.52
	ATOM	4641	CA	HIS A 58	31	10.897	62.042	86.971	1.00	16.52
	ATOM	4642	С	HIS A 58	31	9.816	62.866	86.281	1.00	21.39
	ATOM	4643	0	HIS A 58		9.250	62.522	85.234		18.75
50						10.389	61.487			15.62
50	ATOM	4644	CB	HIS A 58				88.289		
	ATOM	4645	CG	HIS A 58		9.034	60.927	88.100		22.66
	ATOM	4646		HIS A 58		7.914	61.748	88.110	1.00	27.83
	ATOM	4647	CD2	HIS A 58	31	8.623	59.644	87.899	1.00	27.04
	MOTA	4648	CE1	HIS A 58	31	6.843	60.975	87.926	1.00	27.26
55	ATOM	4649		HIS A 58		7.242	59.715	87.789		28.84
22										
	ATOM	4650	N	ASP A 58		9.515	63.986	86.884		17.59
	ATOM	4651	CA	ASP A 58	32	8.491	64.831	86.322	1.00	20.99
	ATOM	4652	С	ASP A 58	32	8.831	65.284	84.927	1.00	24.43
	ATOM	4653	0	ASP A 58		8.013	65.343	84.030		21.69
60	ATOM	4654	СВ	ASP A 58		8.331	66.085	87.197		25.08
<b>~</b>										
	ATOM	4655	CG	ASP A 58		7.626	65.730	88.466		30.98
	MOTA	4656		ASP A 58		7.129	64.638	88.645		36.19
	MOTA	4657	OD2	ASP A 58		7.659	66.680	89.359		38.67
	ATOM	4658	N	GLN A 58	33	10.075	65.649	84.762	1.00	20.38
			-				-			

		MOTA	4659	CA	GLN	Α	583	1	0.451	66.076	83.465	1.00 19.54
		ATOM	4660	С	GLN	Α	583	1	0.423	64.938	82.431	1.00 23.45
		ATOM	4661	0			583		0.182	65.148	81.229	1.00 23.51
		ATOM	4662	СВ			583					
	5								1.857	66.642	83.573	1.00 19.50
	,	ATOM	4663	CG			583		2.188	67.300	82.240	1.00 21.61
		ATOM	4664	CD	GLN	Α	583	1	3.503	68.019	82.370	1.00 44.67
		ATOM	4665	OE1	GLN	Α	583	1	4.236	67.818	83.357	1.00 39.11
		ATOM	4666	NE2	GLN.	A	583		3.778	68.840	81.373	1.00 40.61
		ATOM	4667	N	ALA				0.706			
	10									63.718	82.866	1.00 18.70
	10	MOTA	4668	CA	ALA				0.700	62.595	81.927	1.00 15.00
		ATOM	4669	С	ALA	Α	584		9.307	62.411	81.375	1.00 19.16
		ATOM	4670	0	ALA	Α	584		9.101	62.211	80.176	1.00 19.25
		ATOM	4671	СВ	ALA				1.043	61.288	82.642	1.00 13.44
	1.5	ATOM	4672	N	VAL				8.356	62.452	82.316	1.00 15.46
	15	MOTA	4673	CA	VAL	А	585		6.941	62.258	81.999	1.00 18.57
		ATOM	4674	С	VAL	Α	585		6.418	63.339	81.064	1.00 25.46
		ATOM	4675	0	VAL				5.743	63.106	80.055	1.00 23.63
		ATOM	4676	СВ	VAL							
									6.090	62.120	83.274	1.00 23.07
	20	MOTA	4677		VAL				4.610	62.298	82.946	1.00 23.53
	20	ATOM	4678	CG2	VAL	Α	585		6.340	60.775	83.966	1.00 21.15
		ATOM	4679	N	ARG				6.792	64.564	81.405	1.00 23.81
		ATOM	4680	CA	ARG				6.395			
										65.688	80.615	1.00 22.41
		ATOM	4681	С	ARG				6.974	65.628	79.223	1.00 22.13
		MOTA	4682	0	ARG	А	586		6.283	65.909	78.254	1.00 20.69
	25	MOTA	4683	CB	ARG	Α	586		6.695	67.000	81.329	1.00 21.27
		ATOM	4684	CG	ARG				6.573	68.251	80.461	1.00 39.32
		ATOM	4685									
				CD	ARG				7.134	69.519	81.129	1.00 45.58
		MOTA	4686	NE	ARG				7.498	69.270	82.525	1.00 68.78
		ATOM	4687	CZ	ARG	А	586		8.712	69.427	83.074	1.00 82.97
	30	MOTA	4688	NH1	ARG	Α	586		9.767	69.873	82.357	1.00 50.55
		MOTA	4689		ARG				8.842	69.129	84.383	1.00 31.22
		ATOM	4690									
				N	THR				8.231	65.247	79.095	1.00 19.40
		ATOM	4691	CA	THR	Α	587		8.856	65.157	77.781	1.00 18.84
		MOTA	4692	С	THR	Α	587		8.150	64.170	76.882	1.00 20.71
	35	ATOM	4693	0	THR	Α	587		7.885	64.391	75.702	1.00 23.03
		ATOM	4694	СВ	THR				0.313	64.746	77.975	1.00 23.70
		ATOM	4695		THR							
									0.887	65.693	78.846	1.00 21.83
		ATOM	4696	CG2				1	1.048	64.672	76.654	1.00 21.38
		MOTA	4697	N	TYR	А	588		7.822	63.043	77.464	1.00 21.74
	40	MOTA	4698	CA	TYR	А	588		7.137	62.033	76.693	1.00 19.43
		ATOM	4699	С	TYR				5.808	62.573	76.151	1.00 24.31
		ATOM	4700	0	TYR				5.450	62.483	74.963	1.00 26.68
		MOTA	4701	СВ	TYR	А	588		6.846	60.854	77.638	1.00 18.46
		MOTA	4702	CG	TYR	Α	588		5.842	59.904	77.014	1.00 21.76
	45	ATOM	4703	CD1	TYR	Α	588		6.169	59.136	75.891	1.00 22.44
		ATOM	4704		TYR				4.549	59.808	77.540	1.00 22.19
			4705									
		MOTA			TYR				5.217	58.274	75.335	1.00 26.93
		MOTA	4706		TYR				3.584	58.961	76.999	1.00 19.19
		MOTA	4707	CZ	TYR	Α	588		3.936	58.191	75.890	1.00 25.45
	50	MOTA	4708	ОН	TYR	Α	588		3.008	57.335	75.359	1.00 24.42
:		ATOM	4709	N	GLN				5.039	63.110	77.088	
												1.00 23.42
		ATOM	4710	CA			589		3.727	63.642	76.762	1.00 22.93
: · · · · ·		MOTA	4711	С	GLN	Α	589		3.806	64.594	75.596	1.00 20.18
		MOTA	4712	0	GLN	Α	589		2.957	64.626	74.707	1.00 23.55
: .:	55	MOTA	4713	CB	GLN	А	589		3.139	64.384	77.981	1.00 25.07
		ATOM	4714	CG	GLN							
:									2.683	63.449	79.119	1.00 21.54
7		ATOM	4715	CD	GLN				1.470	62.587	78.765	1.00 41.81
		ATOM	4716		GLN				1.197	62.264	77.606	1.00 37.70
• •		ATOM	4717	NE2	GLN	Α	589		0.721	62.186	79.779	1.00 58.94
	60	ATOM	4718	N	GLU				4.844	65.400	75.649	1.00 17.93
: : :		ATOM	4719	CA								
• • •					GLU				5.097	66.416	74.644	1.00 19.01
:		ATOM	4720	С	GLU				5.566	65.826	73.363	1.00 26.93
•		MOTA	4721	0	GLU	Α	590		5.393	66.453	72.312	1.00 23.86
: : :		MOTA	4722	CB	GLU				6.176	67.452	75.021	1.00 20.73
• • •						-•				5,1152	, 5.021	1.00 20.13

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	ATOM	4723	CG	GLU	Α	590	5.706	68.358	76.180	1.00	36.88
	ATOM	4724	CD			590	6.810	69.187	76.769		62.73
	ATOM	4725	OEl	GLU			7.988	69.112	76.403		55.19
	ATOM	4726	OE2				6.341	69.975	77.718	1.00	
5				HIS				64.666	73.476		23.79
J	ATOM	4727	N				6.203				
	ATOM	4728	CA	HIS			6.700	64.086	72.250		23.24
	ATOM	4729	С	HIS	-		5.818	63.013	71.689		20.50
	ATOM	4730	0			591	5.965	62.619	70.541		24.92
• •	ATOM	4731	CB	HIS			8.076	63.446	72.481		22.84
10	MOTA	4732	CG	HIS	Α	591	9.175	64.446	72.384		25.11
	MOTA	4733	ND1	HIS	Α	591	9.381	65.385	73.378	1.00	28.84
	ATOM	4734	CD2	HIS	Α	591	10.092	64.667	71.403	1.00	26.79
	ATOM	4735	CE1	HIS	Α	591	10.408	66.147	72.984	1.00	27.18
	ATOM	4736	NE2	HIS	Α	591	10.853	65.745	71.796	1.00	26.51
15	ATOM	4737	N			592	4.939	62.487	72.503		19.36
	ATOM	4738	CA	LYS			4.202	61.366	71.988		19.14
	ATOM	4739	C	LYS			3.553	61.382	70.613		28.03
		4740				592	3.592	60.409	69.856		23.29
	ATOM		0								
20	ATOM	4741	CB	LYS			3.431	60.669	73.048		18.80
20	MOTA	4742	CG	LYS			2.321	61.545	73.519		26.37
	MOTA	4743	CD	LYS			1.414	60.713	74.400		33.29
	ATOM	4744	CE	LYS	A	592	0.018	61.301	74.523		45.98
	ATOM	4745	NZ	LYS	Α	592	-0.530	61.163	75.874		25.02
	MOTA	4746	N	ALA	A	593	2.905	62.494	70.300	1.00	29.63
25	MOTA	4747	CA	ALA	А	593	2.225	62.650	69.016	1.00	26.27
	ATOM	4748	С	ALA	Α	593	3.157	62.524	67.808	1.00	26.27
	ATOM	4749	0	ALA	Α	593	2.741	62.121	66.732	1.00	28.39
	ATOM	4750	СВ	ALA			1.558	64.018	68.998		24.94
	ATOM	4751	N	SER			4.420	62.891	67.988		21.56
30	ATOM	4752	CA	SER			5.404	62.867	66.930		22.18
20	ATOM	4753	C			594	6.238	61.590	66.949		22.38
		4754									
	MOTA		0			594	7.160	61.444	66.137		20.87
	ATOM	4755	CB			594	6.352	64.049	67.098		29.27
25	MOTA	4756	OG	SER			7.286	63.814	68.156		45.26
35	ATOM	4757	N	MET			5.922	60.678	67.858		17.72
	MOTA	4758	CA	MET			6.732	59.453	67.945		17.90
	MOTA	4759	С	MET			6.240	58.295	67.114		21.97
	MOTA	4760	0			595	5.105	58.257	66.683		26.36
4.0	MOTA	4761	CB	MET	Α	595	6.717	58.931	69.396	1.00	17.35
40	MOTA	4762	CG	MET	Α	595	7.616	59.720	70.321	1.00	18.64
	ATOM	4763	SD	MET	Α	595	7.451	59.068	71.999	1.00	25.54
	ATOM	4764	CE	MET	Α	595	7.775	60.523	72.990	1.00	32.21
	ATOM	4765	N	HIS	Α	596	7.066	57.284	66.954	1.00	15.02
	ATOM	4766	CA	HIS	Α	596	6.593	56.105	66.258	1.00	16.62
45	ATOM	4767	С			596	5.458	55.524	67.111		19.77
	ATOM	4768	0	HIS	Α	596	5.474	55.605	68.324	1.00	19.53
	ATOM	4769	СВ	HIS			7.756	55.103	66.052		17.44
	ATOM	4770	CG	HIS			7.280	53.844	65.414		20.36
	ATOM	4771		HIS			7.474	53.623	64.059		22.76
50	ATOM	4772		HIS			6.582	52.790	65.937		19.37
50	ATOM	4773		HIS			6.928	52.443			21.23
									63.770		
	ATOM	4774		HIS			6.375	51.935	64.879		22.61
	MOTA	4775	N	PRO			4.425	54.948	66.507		19.72
EE	ATOM	4776	CA	PRO			3.284	54.409	67.233		17.32
55	ATOM	4777	С	PRO			3.515	53.268	68.221		22.24
	ATOM	4778	0	PRO			2.887	53.165	69.277	1.00	20.86
	ATOM	4779	CB	PRO	А	597	2.228	54.031	66.181	1.00	15.13
	ATOM	4780	CG	PRO	А	597	2.989	53.918	64.893	1.00	20.16
	ATOM	4781	CD	PRO	А	597	4.195	54.843	65.045		19.53
60	ATOM	4782	N	VAL	Α	598	4.381	52.340	67.895		17.95
	ATOM	4783	CA	VAL			4.575	51.277	68.868		17.06
	ATOM	4784	С	VAL			5.463	51.830	69.993		16.39
	ATOM	4785	ō	VAL			5.188	51.629	71.176		18.72
	ATOM	4786	СВ	VAL			5.175	50.039	68.180		20.87
	ALON	7/00	CD	4V7	~	730	3.173	50.039	00.100	1.00	20.07

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	MOTA	4787		VAL A		5.739	48.974	69.142	1.00 15.98
	MOTA	4788	CG2	VAL A	598	4.169	49.498	67.132	1.00 17.75
	ATOM	4789	N	THR A	599	6.521	52.548	69.605	1.00 17.91
_	MOTA	4790	CA	THR A	599	7.370	53.125	70.636	1.00 20.42
5	MOTA	4791	С	THR A		6.544	53.965	71.615	1.00 25.40
	MOTA	4792	0	THR A	599	6.683	53.931	72.848	1.00 18.93
	ATOM	4793	СВ	THR A	599	8.436	53.999	69.997	1.00 17.80
	MOTA	4794	OG1	THR A	599	9.082	53.238	68.989	1.00 19.92
	ATOM	4795	CG2	THR A	599	9.399	54.486	71.090	1.00 17.59
10	ATOM	4796	N	ALA A	600	5.657	54.749	71.018	1.00 18.73
	ATOM	4797	CA	ALA A	600	4.798	55.590	71.796	1.00 17.65
	ATOM	4798	С	ALA A		3.971	54.764	72.739	1.00 20.00
	ATOM	4799	0	ALA A		3.867	55.053	73.932	1.00 21.50
	MOTA	4800	СВ	ALA A		3.869	56.344	70.879	1.00 19.26
15	MOTA	4801	N	MET A		3.344	53.731	72.218	1.00 13.20
	ATOM	4802	CA	MET A		2.539	52.928	73.126	
	ATOM	4803	C	MET A		3.409	52.308		1.00 15.28
	ATOM	4804	Ö	MET A				74.224	1.00 17.52
	ATOM	4805				3.018	52.245	75.371	1.00 15.39
20	ATOM	4806	CB	MET A		1.761	51.815	72.369	1.00 16.44
20			CG	MET A		1.008	50.813	73.242	1.00 20.22
	ATOM	4807	SD	MET A		1.962	49.492	74.103	1.00 24.22
	ATOM	4808	CE	MET A		2.327	48.392	72.695	1.00 18.59
	ATOM	4809	N	LEU A		4.580	51.778	73.889	1.00 16.21
25	ATOM	4810	CA	LEU A		5.389	51.117	74.924	1.00 16.19
25	ATOM	4811	С	LEU A		5.940	52.055	76.027	1.00 18.15
	ATOM	4812	0	LEU A		5.962	51.722	77.214	1.00 18.36
	ATOM	4813	CB	LEU A		6.507	50.267	74.269	1.00 14.21
	ATOM	4814	CG	LEU A		5.987	49.058	73.508	1.00 18.02
20	ATOM	4815		LEU A		7.100	48.467	72.642	1.00 17.78
30	ATOM	4816	CD2	LEU A	602	5.502	48.030	74.515	1.00 21.84
	MOTA	4817	N	VAL A	603	6.426	53.224	75.617	1.00 15.71
	ATOM	4818	CA	VAL A	603	6.962	54.208	76.549	1.00 15.67
	ATOM	4819	C	VAL A	603	5.877	54.648	77.537	1.00 17.35
	ATOM	4820	0	VAL A	603	6.093	54.733	78.741	1.00 18.72
35	ATOM	4821	CB	VAL A	603	7.665	55.345	75.807	1.00 19.16
	ATOM	4822	CG1	VAL A	603	8.035	56.477	76.764	1.00 15.61
	ATOM	4823	CG2	VAL A	603	8.943	54.837	75.115	1.00 17.56
	ATOM	4824	N	GLY A		4.661	54.851	77.027	1.00 14.92
	ATOM	4825	CA	GLY A		3.535	55.262	77.879	1.00 14.02
40	ATOM	4826	С	GLY A		3.239	54.206	78.898	1.00 17.85
	ATOM	4827	0	GLY A		2.984	54.443	80.075	1.00 21.21
	ATOM	4828	N	LYS A		3.306	52.987	78.426	1.00 16.57
	ATOM	4829	CA	LYS A		3.127	51.873	79.330	1.00 18.08
	ATOM	4830	C	LYS A		4.251	51.892	80.348	1.00 10.00
45	ATOM	4831	Ö	LYS A		4.034	51.859	81.558	
	ATOM	4832	СВ	LYS A		3.190	50.541		1.00 26.27
	ATOM	4833	CG	LYS A		1.870		78.607	1.00 22.73
	ATOM	4834	CD	LYS A		1.070	49.811	78.714 78.211	1.00 40.15
	ATOM	4835	CE	LYS A			48.377		1.00 57.40
50	ATOM	4836	NZ			1.068	47.461	79.074	1.00 75.31
50	ATOM			LYS A		1.808	46.387	79.758	1.00 74.64
•		4837	N	ASP A		5.470	51.943	79.836	1.00 17.17
	ATOM	4838	CA	ASP A		6.607	51.972	80.718	1.00 16.61
	ATOM	4839	C	ASP A		6.442	53.059	81.738	1.00 19.46
55	ATOM	4840	0	ASP A		6.790	52.848	82.884	1.00 19.57
55	ATOM	4841	CB	ASP A		7.945	52.255	79.990	1.00 16.98
	ATOM	4842	CG	ASP A		8.365	51.063	79.187	1.00 21.21
	MOTA	4843		ASP A		7.944	49.933	79.376	1.00 20.21
	MOTA	4844	OD2	ASP A	606	9.189	51.355	78.249	1.00 18.07
<b>60</b>	ATOM	4845	N	LEU A	607	5.974	54.207	81.306	1.00 16.61
60	MOTA	4846	CA	LEU A	607	5.863	55.352	82.211	1.00 20.64
	ATOM	4847	С	LEU A		4.586	55.384	83.026	1.00 27.05
	MOTA	4848	0	LEU A		4.361	56.274	83.862	1.00 23.83
	ATOM	4849	СВ	LEU A		5.991	56.641	81.388	1.00 23.11
	ATOM	4850	CG	LEU A		7.377	57.301	81.464	1.00 28.84
							37.301	21.101	1.00 20.04

	ATOM	4851	CD1	<b>LEU</b>	Α	607	8.508	56.323	81.711	1.00 29.33
		4852								1.00 19.22
	ATOM		CDZ	LEU			7.650	58.116	80.214	
	ATOM	4853	N	LYS	Α	608	3.739	54.409	82.739	1.00 21.45
										1.00 22.51
-	MOTA	4854	CA	LYS			2.504	54.308	83.446	
5	MOTA	4855	С	LYS	Α	608	1.657	55.529	83.202	1.00 31.79
	MOTA	4856	0	LYS	A	909	0.933	56.008	84.076	1.00 34.10
	MOTA	4857	CB	LYS	A	608	2.810	54.200	84.918	1.00 24.85
	MOTA	4858	CG	LYS	Α	608	3.190	52.782	85.308	1.00 45.51
	ATOM	4859	CD	LYS	Δ	608	3.932	52.718	86.635	1.00 76.45
10										
10	ATOM	4860	CE	LYS	Α	608	4.251	51.291	87.078	1.00100.00
	ATOM	4861	NZ	LYS	7	609	4.137	51.050	88.533	1.00100.00
	ATOM	4862	N	VAL	Α	609	1.781	56.084	82.021	1.00 29.53
	ATOM	4863		VAL	7	600	0.962	57.231	81.738	1.00 32.22
			CA							
	ATOM	4864	С	VAL	Α	609	-0.257	56.755	80.958	1.00 47.38
15	ATOM	4865	0	VAL	70	600	-0.150	55.800	80.186	1.00 49.22
10										
	ATOM	4866	CB	VAL	Α	609	1.679	58.328	80.966	1.00 38.27
	ATOM	4867	CCI	VAL			3.188	58.240	81.067	1.00 38.12
	ATOM	4868	CG2	VAL	Α	609	1.227	58.313	79.515	1.00 39.79
	ATOM	4869		ASP			-1.402	57.415	81.173	1.00 49.29
20			N							
20	ATOM	4870	CA	ASP	Α	610	-2.675	57.124	80.510	1.00 98.66
	ATOM	4871	С	ASP			-3.541	56.207	81.365	1.00100.00
	ATOM	4872	0	ASP	Α	610	-3.950	56.568	82.470	1.00 78.31
	ATOM	4873	CB	ASP	А	<b>610</b>	-2.550	56.631	79.044	1.00100.00
	ATOM	4874	CG	ASP	Δ	610	-1.930	57.631	78.091	1.00100.00
25										
25	MOTA	4875	ODI	ASP	A	610	-2.251	58.807	78.062	1.00 99.48
	ATOM	4876	200	ASP	Δ	61 N	-1.019	57.111	77.288	1.00100.00
			UDZ				1.015	3,.111	77.200	1.00100.00
	TER	4877		ASP	A	610				
	ATOM	4878	ZN2+	7.N	Z	1	16.972	39.340	64.102	1.00 16.33
	ATOM	48/9	YB3+	YB	Υ	1	42.669	51.366	99.201	1.00 18.06
30	MOTA	4880	YB3+	YB	Υ	2	-13.732	57.497	52.155	0.50 46.53
							_			
	MOTA	4881	YB3+	X R	Y	3	-10.443	58.443	52.469	0.50 30.25
	ATOM	4882	N2	BES	R	1	13.712	41.186	63.145	1.00 25.72
	ATOM	4883	C1	BES	В	1	14.450	41.733	64.255	1.00 24.13
	ATOM	4884	С6	BES	В	1	13.749	42.939	64.880	1.00 23.84
25										
35	ATOM	4885	C7	BES	В	1	12.300	42.727	65.283	1.00 19.51
	ATOM	4886	C8	BES	R	1	11.297	43.571	64.799	1.00 18.42
	ATOM	4887	C12	BES	В	1	11.934	41.717	66.170	1.00 19.27
	MOTA	4888	C9	BES	P	1	9.990	43.454	65.227	1.00 16.90
	ATOM	4889	C11	BES	В	1	10.614	41.580	66.600	1.00 19.17
40	MOTA	4890	C10	BES	10	1	9.639	42.451	66.135	1.00 18.42
40							•			
	MOTA	4891	C2	BES	В	1	15.881	42.065	63.795	1.00 21.80
	ATOM	4892	02	BES	В	1	16.369	41.004	60 000	
		マリンと	02		ם	+	10.303			1 00 18 60
	ATOM		_						62.999	1.00 18.60
		4893	C3	BES	В	1	16.741		65.063	1.00 18.60 1.00 23.33
				BES		1		42.156	65.063	1.00 23.33
A E	MOTA	4894	03	BES BES	В	1	16.932	42.156 41.185	65.063 65.803	1.00 23.33 1.00 25.68
45				BES		1		42.156	65.063	1.00 23.33
45	ATOM ATOM	4894 4895	03 N1	BES BES BES	B B	1 1 1	16.932 17.280	42.156 41.185 43.376	65.063 65.803 65.250	1.00 23.33 1.00 25.68 1.00 21.90
45	MOTA MOTA MOTA	4894 4895 4896	03 N1 C4	BES BES BES BES	B B B	1 1 1	16.932 17.280 18.157	42.156 41.185 43.376 43.613	65.063 65.803 65.250 66.390	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18
45	ATOM ATOM	4894 4895	03 N1 C4	BES BES BES	B B B	1 1 1	16.932 17.280	42.156 41.185 43.376	65.063 65.803 65.250	1.00 23.33 1.00 25.68 1.00 21.90
45	ATOM ATOM ATOM ATOM	4894 4895 4896 4897	03 N1 C4 C13	BES BES BES BES BES	B B B	1 1 1 1	16.932 17.280 18.157 19.568	42.156 41.185 43.376 43.613 43.595	65.063 65.803 65.250 66.390 65.855	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49
45	MOTA MOTA MOTA MOTA	4894 4895 4896 4897 4898	03 N1 C4 C13 C14	BES BES BES BES BES	B B B B	1 1 1 1 1	16.932 17.280 18.157 19.568 20.669	42.156 41.185 43.376 43.613 43.595 42.812	65.063 65.803 65.250 66.390 65.855 66.576	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23
	ATOM ATOM ATOM ATOM	4894 4895 4896 4897	03 N1 C4 C13 C14	BES BES BES BES BES	B B B B	1 1 1 1	16.932 17.280 18.157 19.568	42.156 41.185 43.376 43.613 43.595	65.063 65.803 65.250 66.390 65.855	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49
	MOTA MOTA MOTA MOTA MOTA MOTA MOTA	4894 4895 4896 4897 4898 4899	03 N1 C4 C13 C14 C15	BES BES BES BES BES BES	B B B B B	1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210	42.156 41.185 43.376 43.613 43.595 42.812 41.770	65.063 65.803 65.250 66.390 65.855 66.576 67.577	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23 1.00 23.32
50	MOTA MOTA MOTA MOTA MOTA MOTA MOTA	4894 4895 4896 4897 4898 4899	03 N1 C4 C13 C14 C15 C16	BES BES BES BES BES BES BES	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23 1.00 23.32 1.00 22.52
	MOTA MOTA MOTA MOTA MOTA MOTA MOTA	4894 4895 4896 4897 4898 4899	03 N1 C4 C13 C14 C15 C16	BES BES BES BES BES BES BES	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692	42.156 41.185 43.376 43.613 43.595 42.812 41.770	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23 1.00 23.32 1.00 22.52
	MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	4894 4895 4896 4897 4898 4899 4900	03 N1 C4 C13 C14 C15 C16 C5	BES BES BES BES BES BES BES	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23 1.00 23.32 1.00 22.52 1.00 25.70
	MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	4894 4895 4896 4897 4898 4899 4900 4901 4902	03 N1 C4 C13 C14 C15 C16	BES BES BES BES BES BES BES BES	<b>B B B B B B B B B B</b>	1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63
	MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	4894 4895 4896 4897 4898 4899 4900 4901 4902	03 N1 C4 C13 C14 C15 C16 C5	BES BES BES BES BES BES BES BES	<b>B B B B B B B B B B</b>	1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23 1.00 23.32 1.00 22.52 1.00 25.70
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4899 4900 4901 4902 4903	O3 N1 C4 C13 C14 C15 C16 C5 O1	BES BES BES BES BES BES BES BES	BBBBBBBBBBB	1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52
50	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4990 4901 4902 4903 4904	03 N1 C4 C13 C14 C15 C16 C5 O1 O4 CG	BES BES BES BES BES BES BES BES BES	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44
50	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4990 4901 4902 4903 4904	03 N1 C4 C13 C14 C15 C16 C5 O1 O4 CG	BES BES BES BES BES BES BES BES BES	BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 24.23 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4990 4901 4902 4903 4904 4905	03 N1 C4 C13 C14 C15 C16 C5 O1 O4 CG ND1	BES BES BES BES BES BES BES IMD	B B B B B B B I I	1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 23.32 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44 1.00 15.15
50	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4900 4901 4902 4903 4904 4905 4906	03 N1 C4 C13 C14 C15 C16 C5 O1 O4 CG ND1 CD2	BES BES BES BES BES BES BES BES IMD IMD	B B B B B B B I I I	1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 23.32 1.00 25.70 1.00 22.63 1.00 26.52 1.00 25.52 1.00 14.44 1.00 15.15 1.00 13.81
50	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4900 4901 4902 4903 4904 4905 4906	03 N1 C4 C13 C14 C15 C16 C5 O1 O4 CG ND1 CD2	BES BES BES BES BES BES BES BES IMD IMD	B B B B B B B I I I	1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 23.32 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44 1.00 15.15 1.00 13.81
50	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4900 4901 4902 4903 4904 4905 4906 4907	03 N1 C4 C13 C14 C15 C16 C5 O1 O4 CG ND1 CD2 CE1	BES BES BES BES BES BES BES BES IMD IMD IMD	B	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44 1.00 15.15 1.00 13.81 1.00 9.17
50	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4900 4901 4902 4903 4904 4905 4906	03 N1 C4 C13 C14 C15 C16 C5 O1 O4 CG ND1 CD2 CE1	BES BES BES BES BES BES BES BES IMD IMD	B	1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 23.32 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44 1.00 15.15 1.00 13.81
50	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4899 4900 4901 4903 4904 4905 4906 4907 4908	03 N1 C4 C13 C14 C15 C16 C5 O1 CG ND1 CD2 CE1 NE2	BES BES BES BES BES BES BES BES IMD IMD IMD IMD	B	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096 28.014	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555 42.249	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588 79.494	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44 1.00 15.15 1.00 13.81 1.00 9.17 1.00 21.14
50 55	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4899 4900 4901 4903 4904 4905 4906 4907 4908 4909	03 N1 C4 C13 C14 C15 C16 C5 O1 CG ND1 CD2 CE1 NE2 CB	BES BES BES BES BES BES BES IMD IMD IMD IMD ACE	BBBBBBBIIIC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096 28.014 13.753	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555 42.249 12.531	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588 79.494 68.686	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52 1.00 15.15 1.00 13.81 1.00 9.17 1.00 21.14 1.00 39.29
50	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4899 4900 4901 4903 4904 4905 4906 4907 4908	03 N1 C4 C13 C14 C15 C16 C5 O1 CG ND1 CD2 CE1 NE2	BES BES BES BES BES BES BES BES IMD IMD IMD IMD	BBBBBBBIIIC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096 28.014	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555 42.249	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588 79.494	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44 1.00 15.15 1.00 13.81 1.00 9.17 1.00 21.14
50 55	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4900 4901 4902 4903 4904 4905 4906 4907 4908 4909 4910	03 N1 C4 C13 C14 C15 C16 C5 O1 CG ND1 CD2 CE1 NE2 CB	BES BES BES BES BES BES BES IMD IMD IMD ACE ACE	B	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096 28.014 13.753 13.041	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555 42.249 12.531 13.755	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588 79.494 68.686 69.176	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52 1.00 13.81 1.00 9.17 1.00 21.14 1.00 39.29 1.00 52.31
50 55	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4900 4901 4903 4904 4905 4906 4908 4909 4910	03 N1 C4 C13 C14 C15 C16 C5 O1 CG ND1 CD2 CE1 NE2 CB CG	BES BES BES BES BES BES BES IMD IMD IMD ACE ACE	B B B B B B B I I I I C C C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096 28.014 13.753 13.041 13.310	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555 42.249 12.531 13.755 14.951	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588 79.494 68.686 69.176 68.885	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44 1.00 15.15 1.00 13.81 1.00 9.17 1.00 21.14 1.00 39.29 1.00 52.31 1.00 21.34
50 55	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4900 4901 4902 4903 4904 4905 4906 4907 4908 4909 4910	03 N1 C4 C13 C14 C15 C16 C5 O1 CG ND1 CD2 CE1 NE2 CB CG	BES BES BES BES BES BES BES IMD IMD IMD ACE ACE	B B B B B B B I I I I C C C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096 28.014 13.753 13.041	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555 42.249 12.531 13.755	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588 79.494 68.686 69.176	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52 1.00 13.81 1.00 9.17 1.00 21.14 1.00 39.29 1.00 52.31
50 55	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4900 4901 4903 4904 4905 4906 4907 4908 4909 4911 4912	03 N1 C4 C13 C14 C15 C16 C5 O1 CG ND1 CD2 CE1 NE2 CB CG OD1 OD2	BES BES BES BES BES BES BES IMD IMD IMD ACE ACE	BBBBBBBIIIICCCC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096 28.014 13.753 13.041 13.310 12.075	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555 42.249 12.531 13.755 14.951 13.324	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588 79.494 68.686 69.176 68.885 69.958	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 22.52 1.00 25.70 1.00 22.63 1.00 26.52 1.00 14.44 1.00 15.15 1.00 13.81 1.00 9.17 1.00 21.14 1.00 39.29 1.00 21.34 1.00 27.10
50 55	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4899 4900 4901 4903 4904 4905 4906 4907 4908 4910 4911 4912 4913	03 N1 C4 C13 C14 C15 C16 C5 O1 O4 CG ND1 CD2 CE1 NE2 CB CG OD1 OD2 O	BES BES BES BES BES BES BES IMD IMD IMD ACE ACE HOH	BBBBBBBILLICCCCW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096 28.014 13.753 13.041 13.310 12.075 23.792	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555 42.249 12.531 13.755 14.951 13.324 34.258	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588 79.494 68.686 69.176 68.885 69.958 75.188	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 22.52 1.00 25.70 1.00 26.52 1.00 14.44 1.00 15.15 1.00 13.81 1.00 9.17 1.00 21.14 1.00 39.29 1.00 21.34 1.00 27.10 1.00 13.41
50 55	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4894 4895 4896 4897 4898 4900 4901 4903 4904 4905 4906 4907 4908 4909 4911 4912	03 N1 C4 C13 C14 C15 C16 C5 O1 CG ND1 CD2 CE1 NE2 CB CG OD1 OD2	BES BES BES BES BES BES BES IMD IMD IMD ACE ACE	BBBBBBBILLICCCCW	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.932 17.280 18.157 19.568 20.669 20.210 21.692 17.840 17.160 18.206 26.142 25.962 27.444 27.096 28.014 13.753 13.041 13.310 12.075	42.156 41.185 43.376 43.613 43.595 42.812 41.770 42.287 45.000 45.848 45.226 42.633 42.811 42.291 42.555 42.249 12.531 13.755 14.951 13.324	65.063 65.803 65.250 66.390 65.855 66.576 67.577 65.590 67.053 66.348 68.192 80.576 79.218 80.744 78.588 79.494 68.686 69.176 68.885 69.958	1.00 23.33 1.00 25.68 1.00 21.90 1.00 24.18 1.00 22.49 1.00 23.32 1.00 22.52 1.00 25.70 1.00 26.52 1.00 14.44 1.00 15.15 1.00 13.81 1.00 9.17 1.00 21.14 1.00 39.29 1.00 21.34 1.00 27.10

Previous and a contract of the contract of the

	MOTA	4915	0	HOH W	3	21.452	48.008	79.289	1.00 14.29	
	ATOM	4916	0	HOH W	4	7.395	22.508	68.980	1.00 15.42	
	ATOM	4917	0	HOH W	5	8.875	45.610	71.521	1.00 15.01	
	ATOM	4918	0	HOH W	6	18.318	15.775	81.560	1.00 42.99	
5	ATOM	4919	0	HOH W	7	30.607	45.406	73.230	1.00 16.49	
-	MOTA	4920	Ö	HOH W	8				1.00 20.69	
						2.151	35.326	56.132		
	ATOM	4921	0	HOH W	9	26.371	45.237	72.729	1.00 32.21	
	ATOM	4922	0	HOH W	10	10.117	47.411	58.465	1.00 19.66	
10	MOTA	4923	0	HOH W	11	24.576	45.901	81.764	1.00 15.98	
10	ATOM	4924	0	HOH W	12	21.400	39.522	70.350	1.00 17.59	
	ATOM	4925	0	HOH W	13	32.755	39.688	76.763	1.00 14.73	
	ATOM	4926	0	HOH W	14	15.723	43.292	73.593	1.00 28.15	
	ATOM	4927	0	HOH W	15	33.012	53.990	68.029	1.00 20.61	
	ATOM	4928	0	HOH W	16	21.672	48.368	86.318	1.00 18.35	
15	ATOM	4929	ō	HOH W	17	11.843	66.293	86.775	1.00 20.28	
	ATOM	4930	ŏ	HOH W	18	-7.370	39.258	72.858	1.00100.00	
	ATOM	4931	o	HOH W	19	10.951	58.853	90.712	1.00100.00	
	ATOM	4932	Ö	HOH W	20					
						7.991	67.991	69.688	1.00 51.29	
20	ATOM	4933	0	HOH W	21	27.534	25.933	83.686	1.00 30.42	
20	ATOM	4934	0	HOH W	22	14.754	47.886	81.192	1.00 91.59	
	ATOM	4935	0	HOH W	23	35.638	66.681	74.616	1.00 18.43	
	MOTA	4936	0	HOH $W$	24	14.917	46.651	71.292	1.00 29.09	
	MOTA	4937	0	HOH W	25	24.339	72.545	82.858	1.00 27.38	
	MOTA	4938	0	HOH W	26	3.954	59.653	64.218	1.00 29.75	
25	ATOM	4939	0	HOH W	27	0.174	30.326	72.099	1.00 20.53	
	MOTA	4940	0	HOH W	28	17.250	55.520	87.251	1.00 15.14	
	ATOM	4941	0	HOH W	29	2.640	38.007	61.525	1.00 15.01	
	ATOM	4942	ō	HOH W	30	10.861	36.115	89.266	1.00 26.76	
	ATOM	4943	ō	HOH W	31	30.988	44.243	70.800	1.00 20.70	
30	ATOM	4944	Ö	HOH W	32	9.095				
50	ATOM	4945	Ö	HOH W	33		44.675	75.314	1.00 24.97	
						29.917	47.569	70.312	1.00 33.43	
	ATOM	4946	0	HOH W	34	23.537	45.186	73.070	1.00 21.89	
	ATOM	4947	0	HOH W	35	13.919	30.086	87.520	1.00 27.60	
35	ATOM	4948	0	HOH W	36	24.004	28.230	84.950	1.00 54.91	
33	MOTA	4949	0	HOH W	37	44.740	56.907	93.797	1.00 39.70	
	MOTA	4950	0	HOH W	38	36.453	36.919	75.700	1.00 12.06	
	MOTA	4951	0	HOH W	39	27.587	65.302	75.920	1.00 21.02	
	MOTA	4952	0	HOH W	40	23.077	39.811	87.155	1.00 38.48	
	ATOM	4953	0	HOH W	41	3.661	37.055	59.039	1.00 17.86	
40	ATOM	4954	0	HOH W	42	21.794	20.673	79.219	1.00 20.60	
	ATOM	4955	0	HOH W	43	6.324	36.055	87.167	1.00 30.35	
	ATOM	4956	0	HOH W	44	24.649	34.194	44.975	1.00 52.51	
	ATOM	4957	0	HOH W	45	20.611	44.717	78.685	1.00 27.41	
	ATOM	4958	0	HOH W	46	19.969	50.884	89.461	1.00 29.62	
45	ATOM	4959	ō	HOH W	47	30.940	66.808	78.811	1.00 15.76	
• •	ATOM	4960	ŏ	HOH W	48	26.539	55.260	66.886	1.00 19.97	
	ATOM	4961	ŏ							
		4962		HOH W	49	7.314	45.436	77.867	1.00 35.07	
	ATOM		0	HOH W	50	10.579	54.800	67.603	1.00 15.62	
50	ATOM	4963	0	HOH W	51	28.138	31.371	66.611	1.00 15.08	
50	ATOM	4964	0	HOH W	52	26.292	33.348	75.129	1.00 15.49	
	ATOM	4965	0	HOH W	53	15.204	48.508	69.331	1.00 16.03	
	ATOM	4966	0	HOH W	54	9.451	57.282	68.158	1.00 20.39	•
	ATOM	4967	0	HOH W	55	34.923	67.738	77.001	1.00 15.06	
	ATOM	4968	0	HOH W	56	10.193	53.763	78.443	1.00 19.23	
55	ATOM	4969	0	HOH W	57	35.246	32.562	64.227	1.00 27.89	
	MOTA	4970	0	HOH W	58	7.230	48.517	65.509	1.00 17.57	
	ATOM	4971	0	HOH W	59	15.707	29.269	62.146	1.00 16.76	
	ATOM	4972	ō	нон w	60	22.703	46.209	83.610	1.00 14.72	
	ATOM	4973	Ö	HOH W	61	-5.573	31.742	67.048	1.00 14.72	
60	ATOM	4974	Ö	HOH W	62					
	ATOM	4975				23.958	46.448	79.118	1.00 14.95	
			0	HOH W	63	-4.387	51.289	59.224	1.00 29.13	
	ATOM	4976	0	HOH W	64	1.494	43.916	68.255	1.00 21.32	
	ATOM	4977	0	HOH W	65	15.236	37.185	89.202	1.00 24.71	
	ATOM	4978	0	HOH W	66	8.901	44.256	58.842	1.00 22.41	

	ATOM	4979	0	HOH W	67	8.741	44.059	69.410	1.00 19.23
	MOTA	4980	0	HOH W	68	10.536	31.361	71.130	1.00 17.26
	MOTA	4981	0	HOH W	69	14.270	66.977	85.494	1.00 24.71
	ATOM	4982	0	HOH W	70	19.324	33.013	51.120	1.00 31.37
5	ATOM	4983	0	нон w	71	22.888	42.589	71.900	1.00 32.53
	ATOM	4984	0	HOH W	72	18.199	19.792	50.850	1.00 95.99
	ATOM	4985	0	HOH W	73	-2.766	36.708	53.654	1.00 25.61
	ATOM	4986	0	HOH W	74	40.154	44.352	89.098	1.00 18.04
	ATOM	4987	ō	HOH W	75	43.798	45.414	76.216	1.00 42.09
10	ATOM	4988	ō	HOH W	76	2.095	33.636	67.241	1.00 16.77
	ATOM	4989	ō	HOH W	77	17.697	47.834	68.674	1.00 15.55
	ATOM	4990	ō	HOH W	78	0.487	49.526	68.994	1.00 40.71
	ATOM	4991	ŏ	HOH W	79	24.958	57.027	93.315	1.00 15.83
	ATOM	4992	0	HOH W	80	16.157	27.572	83.036	1.00 20.90
15	ATOM	4993	Õ	HOH W	81	5.222	49.330	63.415	1.00 17.36
	ATOM	4994	ŏ	HOH W	82	16.211	37.941	52.836	1.00 17.36
	ATOM	4995	ō	HOH W	83				
	MOTA	4996	0			32.789	43.179	86.654	1.00 20.34
	MOTA	4997	0	HOH W	84	9.298	48.075	81.153	1.00 54.83
20				HOH W	85	29.454	36.152	82.527	1.00 29.31
20	ATOM	4998	0	HOH W	86	41.926	50.859	91.024	1.00 26.91
	ATOM	4999	0	HOH W	87	42.353	47.486	84.905	1.00 21.77
	ATOM	5000	0	HOH W	88	7.099	45.738	66.261	1.00 16.80
	ATOM	5001	0	HOH W	89	-7.189	40.950	62.864	1.00 18.87
25	MOTA	5002	0	HOH W	90	-0.532	35.957	55.006	1.00 30.96
23	ATOM	5003	0	HOH W	91	2.498	58.239	62.223	1.00 33.64
	ATOM	5004	0	HOH W	92	8.030	54.347	85.172	1.00 36.67
	MOTA	5005	0	HOH W	93	-9.086	47.257	64.010	1.00 25.14
	MOTA	5006	0	HOH W	94	7.634	23.157	71.565	1.00 26.48
20	MOTA	5007	0	HOH W	95	36.802	57.687	75.942	1.00 33.51
30	ATOM	5008	0	HOH W	96	31.266	28.847	81.561	1.00 33.78
	ATOM	5009	0	HOH W	97	42.718	53.265	90.455	1.00 18.15
	ATOM	5010	0	HOH W	98	25.175	49.362	94.064	1.00 38.55
	ATOM	5011	0	HOH W	99	-1.458	36.897	71.377	1.00 21.47
25	MOTA	5012	0		100	36.955	22.462	67.101	1.00 62.30
35	ATOM	5013	0	HOH W	101	17.777	47.785	75.841	1.00 20.17
	ATOM	5014	0		102	17.194	41.841	54.112	1.00 16.39
	ATOM	5015	0	HOH W		-1.972	55.370	57.254	1.00 25.11
	ATOM	5016	0		104	27.602	40.677	72.586	1.00 21.30
40	MOTA	5017	0	HOH W		37.435	51.467	61.104	1.00 65.38
40	ATOM	5018	0	HOH W		1.256	32.447	69.628	1.00 23.44
	ATOM	5019	0		107	9.241	16.192	63.327	1.00 48.00
	MOTA	5020	0	HOH W		0.854	36.054	64.035	1.00 18.60
	MOTA	5021	٥		109	18.727	44.131	84.651	1.00 24.89
4.5	MOTA	5022	0	HOH W		26.098	18.961	78.803	1.00 24.48
45	ATOM	5023	0	HOH W		19.158	42.699	78.273	1.00 28.07
	ATOM	5024	0	HOH W		38.525	39.961	90.164	1.00 49.63
	MOTA	5025	0	HOH W		18.603	45.487	82.264	1.00 21.64
	MOTA	5026	0	HOH W		-9.935	47.106	60.568	1.00 27.24
<b>.</b>	MOTA	5027	0	HOH W		12.837	36.710	59.433	1.00 15.13
50	ATOM	5028	0	HOH W	116	33.438	65.032	85.997	1.00 32.21
	ATOM	5029	0	HOH W	117	38.122	36.535	73.494	1.00 12.50
	MOTA	5030	0	HOH W	118	39.258	66.537	78.047	1.00 18.65
	MOTA	5031	0	HOH W	119	6.554	34.671	88.987	1.00 15.86
	ATOM	5032	0	HOH W	120	13.095	46.874	73.346	1.00 30.35
55	MOTA	5033	0	HOH W	121	32.660	36.335	82.732	1.00 35.47
	ATOM	5034	0	HOH W	122	9.605	28.610	88.505	1.00 19.15
	MOTA	5035	0	HOH W		27.330	46.500	69.982	1.00 28.22
	MOTA	5036	o	HOH W		21.495	44.397	85.333	1.00 27.70
	ATOM	5037	ō	нон и		25.964	67.884	90.313	1.00 24.59
60	ATOM	5038	ō	HOH W		39.654	61.279	78.612	1.00 34.08
	ATOM	5039	ō	HOH W		28.830	50.839	62.528	1.00 22.84
	ATOM	5040	ō	HOH W		-2.192	25.904	60.928	1.00 48.99
	ATOM	5041	Ö	HOH W		12.941	37.733	62.998	1.00 17.09
	ATOM	5042	0	HOH W		17.656	39.494	55.302	1.00 23.77
	ALON	2012	J	TOTT W	130	17.030	32.323	55.502	2.00 20.77

	3.000	5040	_	*****		5 616	21 767	70 251	1 00 00 11		
	ATOM	5043	0	HOH W		5.616	31.767	78.251	1.00 22.11		
	ATOM	5044	0	HOH W		11.134	59.317	68.286	1.00 24.37		
	MOTA	5045	0	HOH W		7.669	46.689	57.186	1.00 19.15		
5	ATOM	5046	0	HOH W		24.475	34.718	86.839	1.00 32.19		
3	MOTA	5047	0	HOH W		23.517	44.933	68.463	1.00 20.25		
	ATOM	5048	0	HOH W		26.942	39.752	68.390	1.00 15.96		
	MOTA	5049	0	HOH W	_	8.029	20.133	84.468	1.00 16.28		
	ATOM	5050	0	HOH W		-0.771	45.529	78.260	1.00 68.55		
10	MOTA	5051	0	HOH W		44.023	49.889	77.980	1.00 30.04		
10	MOTA	5052	0	HOH W		26.786	62.061	81.604	1.00 16.85		
	ATOM	5053	0	HOH W		13.879	47.676	76.209	1.00 46.91		
	MOTA	5054	0	HOH W		25.840	58.036	65.771	1.00 54.37		
	ATOM	5055	0	HOH W		10.922	53.966	85.792	1.00 18.98		
15	ATOM	5056	0	HOH W		-12.182	45.374	45.449	1.00 33.96		
13	ATOM	5057	0	HOH W		31.206	39.579	79.369	1.00 15.60		
	ATOM	5058	0	HOH W		15.440	42.222	77.590	1.00 25.43		
	ATOM	5059	0	HOH W		0.824	56.052	62.386	1.00 26.41		
	ATOM	5060	0	HOH W		44.978	53.578	86.262	1.00 22.60		
20	ATOM	5061	0	HOH W		17.898	31.967	86.834	1.00 19.51		
20	ATOM	5062	0	нон м		15.892	63.944	61.374	1.00 54.27		
	ATOM	5063	0	HOH W		29.311	44.330	75.316	1.00 39.02		
	ATOM	5064	0	HOH W		11.678	62.566	52.561	1.00 27.61		
	MOTA	5065	0	HOH W		26.748	53.479	95.785	1.00 45.53		
25	ATOM	5066	0	HOH W		35.164	39.157	88.454	1.00 33.28		
23	ATOM	5067	0	HOH W		13.599	30.411	61.539	1.00 16.55		
	ATOM	5068	0	HOH W		2.955	41.496	60.167	1.00 26.41		
	ATOM	5069	0	нон м		21.013	47.058	81.902	1.00 24.07		
	ATOM	5070	0	HOH W		7.082	15.804	68.963	1.00 13.64		
30	ATOM	5071	0	HOH W		43.659	51.565	97.228	1.00 13.91		
30	ATOM	5072	0	HOH W		25.728	46.521	67.857	1.00 15.18		
	ATOM	5073	0	HOH W		16.336	27.429	80.519	1.00 13.58		
	ATOM	5074	0	HOH W		13.506	27.963	78.488	1.00 11.63		
	ATOM	5075	0	HOH W		-1.826	28.836	60.633	1.00 18.21		
35	ATOM	5076	0	HOH W		2.041	28.523	68.718	1.00 19.80		
33	ATOM	5077 5078	0	HOH W		39.832	50.082	92.567	1.00 15.76		
	ATOM ATOM		0	HOH W		20.417	35.797	44.686 74.993	1.00 23.98 1.00 26.08		
	ATOM	5079 5080	0	HOH W		36.272 5.426	60.259 61.205	63.338	1.00 28.08		
	ATOM	5081	0	HOH W		17.667	67.608	77.116	1.00 28.66		
40	ATOM	5082	0	HOH W		5.631	18.160	69.508	1.00 19.48		
	ATOM	5083	Ö	HOH W		22.328	62.979	93.415	1.00 25.81	. •	
	ATOM	5084	Ö	HOH W		40.390	48.175	94.855	1.00 47.37		
	ATOM	5085	Ö	нон м		17.444	40.095	51.789	1.00 18.19		
	ATOM	5086	ŏ	HOH W		29.587	24.011	76.681	1.00 24.09		
45	ATOM	5087	ŏ	HOH W		6.778	26.010	80.637	1.00 26.64		
	ATOM	5088		HOH W			42.250		1.00 24.88		
	MOTA	5089	Ö	HOH W	177	28.198	18.300	60.474	1.00 24.14		
	ATOM	5090	ō	нон и		22.788		90.209	1.00 24.26		
	ATOM	5091	ō	HOH W		29.931	24.564	79.534	1.00 31.74		
50	ATOM	5092	Ö	HOH W		10.739	18.587	70.209	1.00 34.82		
	ATOM	5093	ō	HOH W		3.737	42.980	66.727	1.00 18.45		
	ATOM	5094	ō	HOH W		10.657	69.135	86.850	1.00 30.21		
	MOTA	5095	0	HOH W		23.612	39.959	68.861	1.00 20.99		
	ATOM	5096	0	HOH W		30.240	50.378	93.511	1.00 31.76		
55	MOTA	5097	0	HOH W		24.407	42.363	69.680	1.00 23.63		
	MOTA	5098	Ō	HOH W	_	3.121	26.698	57.992	1.00 26.26		
	ATOM	5099	ō	HOH W		6.662	51.993	60.872	1.00 21.24		
	ATOM	5100	ō	HOH W		10.549	31.727	52.631	1.00 21.12		
	ATOM	5101	ō	HOH W		7.213	14.560	66.229	1.00 19.68		
60	MOTA	5102	ō	HOH W		10.944	37.995	74.849	1.00 26.21		
	ATOM	5103	Ō	HOH W		29.009	38.268	80.361	1.00 21.40		
	ATOM	5104	ō	HOH W		8.720	37.803	87.790	1.00 25.70		
	ATOM	5105	ō	HOH W		30.731	47.721	57.132	1.00 25.12		
	ATOM	5106	O	нон м		21.085	45.693	69.052	1.00 27.11		

	ATOM	5107	0	HOH W 195	37.609	50.318	68.349	1.00 33.12
	ATOM	5108	ō	HOH W 196	-4.270	35.004	72.084	1.00 23.92
	ATOM	5109	ō	HOH W 197	38.619	67.647	73.848	1.00 28.81
	ATOM	5110	ŏ	HOH W 198	0.963	27.263	54.964	1.00 25.61
5	ATOM	5111	ō	HOH W 199	32.881	53.350	97.969	1.00 72.92
•	ATOM	5112	ŏ	HOH W 200	16.605	54.411	65.120	1.00 21.12
	ATOM	5113	Ö	HOH W 201	19.780	53.463	90.814	1.00 25.04
	ATOM	5114	0	HOH W 202	-7.941	56.718	56.011	1.00 40.98
	ATOM	5115	ō	HOH W 203	8.373	35.496	71.320	1.00 34.46
10	ATOM	5116	ō	HOH W 204	30.102	60.104	96.117	1.00 23.15
~~	ATOM	5117	ō	HOH W 205	28.927	39.455	66.453	1.00 21.12
	ATOM	5118	ŏ	HOH W 206	39.689	41.335	88.297	1.00 27.24
	ATOM	5119	ŏ	HOH W 207	33.916	37.626	52.438	1.00 33.19
	ATOM	5120	Ö	HOH W 208	1.622	50.963	82.588	1.00 50.35
15	ATOM	5121	Ö	HOH W 209	16.333	60.146	56.900	1.00 29.60
13	ATOM	5122	Ö	HOH W 210	39.242	45.128	91.725	1.00 22.90
	ATOM	5123	ō	HOH W 211	14.399	30.418	45.430	1.00 22.30
	MOTA	5124	0	HOH W 212	29.888	42.111	88.891	1.00 34.76
		5125	0	HOH W 213		26,212	50.297	1.00 44.21
20	ATOM		0		18.346		74.711	
20	ATOM	5126 5127		HOH W 214 HOH W 215	22.864	63.026	85.926	1.00 29.30
	ATOM	-	0	HOH W 215	20.113 23.298	37.220 70.540	87.208	1.00 24.06 1.00 35.89
	ATOM	5128 5129	0	HOH W 217	26.970	41.872	69.933	1.00 33.89
	ATOM	5129	0	HOH W 217	-4.296	41.872	43.216	1.00 28.60
25	ATOM ATOM	5131	0	HOH W 219	12.321	60.082	62.828	1.00 33.30
20	ATOM	5132	ō	HOH W 220	13,873	37.878	45.419	1.00 20.33
		5132	ŏ	HOH W 221	30.748	40.180	83.791	1.00 43.33
	ATOM ATOM	5134		HOH W 222			93.087	1.00 37.04
		5135	0	HOH W 223	15.784 35.311	58.732 18.767	63.462	1.00 23.00
30	ATOM	5136	0	HOH W 224			77.400	1.00 49.24
30	ATOM	5137		HOH W 225	-0.325	33.536		1.00 28.39
	ATOM		0		9.312	60.280	65.861	
	ATOM	5138	0	HOH W 226	20.424	20.146	83.661	1.00 32.68
	ATOM	5139	0	HOH W 227	10.879	65.256	88.761	1.00 28.17
35	ATOM	5140	0	HOH W 228	6.481	11.890	66.154	1.00 13.58
33	ATOM	5141	0	HOH W 229	11.493	12.304	65.667	1.00 31.38
	ATOM	5142 5143	0	HOH W 230	23.893	48.760	67.764	1.00 19.58
	ATOM		0	HOH W 231	11.826	33.465	74.498	1.00 16.87
	MOTA	5144 5145	0	HOH W 232 HOH W 233	20.228	48.799	84.083 83.238	1.00 14.10
40	ATOM ATOM	5146		HOH W 234	8.333	25.989	90.512	1.00 20.03
70	ATOM		0	HOH W 235	24.244	65.422		1.00 18.61
	MOTA	5147 5148	0	HOH W 236	29.682 32.122	43.395	86.674	1.00 29.99 1.00 21.98
		5146	0	HOH W 237		38.935	81.421 70.626	1.00 21.98
	MOTA MOTA	5150	0	HOH W 238	38.098	44.260	81.829	
45		5151	0	HOH W 239	17.172	68.773	85.707	1.00 33.19 1.00 27.98
72	ATOM	5152	0	HOH W 240	22.056 10.609	41.676 35.835	76.035	1.00 27.98
	ATOM			HOH W 241			80.563	
	MOTA	5153 5154		HOH W 242	5.895 4.210	48.362 38.365	90.354	1.00 35.27 1.00 62.63
	MOTA	5155	0	HOH W 242	27.505		57.570	
50	ATOM ATOM	5156	0	HOH W 244	40.199	26.048 29.895	75.610	1.00 34.59
30	ATOM	5157	ŏ	HOH W 244	41.069	35.070	67.073	1.00 30.81
	ATOM	5158	o	HOH W 246	18.209	43.386	70.174	1.00 24.27
	ATOM	5159	ō	HOH W 247	22.994	40.780	73.297	1.00 24.27
	ATOM	5160	ŏ	HOH W 248	11.980	17.646	61.687	1.00 24.63
55	ATOM	5161	o	HOH W 249	17.092	44.230	71.974	1.00 27.55
55	ATOM	5162	o	HOH W 250	29.907	45.909	50.610	1.00 27.55
	MOTA	5163	0	HOH W 251	25.337	41.587	74.020	1.00 33.03
	ATOM	5164	0	HOH W 252	34.320	29.393	64.417	1.00 31.92
	MOTA	5165	0	HOH W 253	16.366	57.688	55.311	1.00 34.88
60	ATOM	5166	0	HOH W 254	25.295	70.347	83.432	1.00 30.33
50	ATOM	5167	0	HOH W 255	28.780	44.083	69.312	1.00 44.02
	MOTA	5168	ŏ	HOH W 256	43.987	44.841	81.855	1.00 38.00
	ATOM	5169	0	HOH W 257	10.694	22.780	82.399	1.00 40.18
	ATOM	5170	0	HOH W 258	3.209	26.059	69.842	1.00 40.18
	AT ON	31/0	J	11011 W 236	5.209	20.000	07.042	1.00 30.02

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	MOTA	5171	0	HOH W 259	25.123	69.880	90.995	1.00 32.08
	ATOM	5172	0	HOH W 260	10.460	60.937	72.334	1.00 28.48
	ATOM	5173	0	HOH W 261	35.272	43.014	54.933	1.00 35.32
_	MOTA	5174	0	HOH W 262	31.555	49.428	69.261	1.00 30.03
5	ATOM	5175	0	HOH W 263	18.455	45.339	74.865	1.00 22.60
	ATOM	5176	0	HOH W 264	0.397	52.925	76.187	1.00 26.73
	MOTA	5177	0	HOH W 265	24.642	68.564	81.573	1.00 27.40
	ATOM	5178	0	HOH W 266	25.734	20.393	55.492	1.00 32.87
	MOTA	5179	0	HOH W 267	11.923	58.720	70.763	1.00 21.77
10	MOTA	5180	0	HOH W 268	30.308	43.013	67.201	1.00 35.32
	MOTA	5181	0	HOH W 269	39.640	38.126	67.437	1.00 28.94
	MOTA	5182	0	HOH W 270	10.397	50.110	41.557	1.00 28.07
	ATOM	5183	0	HOH W 271	33.290	46.466	61.539	1.00 27.30
1.5	ATOM	5184	0	HOH W 272	0.016	42.090	76.502	1.00 32.33
15	ATOM	5185	0	HOH W 273	26.563	45.481	40.291	1.00 47.85
	ATOM	5186	0	HOH W 274	30.451	15.205	70.110	1.00 33.04
	ATOM	5187	0	HOH W 275	0.678	54.618	69.973	1.00 30.37
	ATOM	5188	0	HOH W 276	31.009	22.826	58.292	1.00 38.03
20	ATOM	5189	0	HOH W 277	11.598	18.077	78.103	1.00 32.86 1.00 38.27
20	ATOM	5190	0	HOH W 278	42.789	49.257	82.276	1.00 36.27
	ATOM	5191	0	HOH W 279	22.610	37.483	44.945 54.480	1.00 36.88
	ATOM ATOM	5192 5193	0	HOH W 280 HOH W 281	19.095 -17.217	19.104 39.695	36.067	1.00 23.32
	ATOM	5193	0	HOH W 282	6.068	42.637	67.543	1.00 33.30
25	ATOM	5195	0	HOH W 283	20.639	46.522	87.847	1.00 35.07
2.0	ATOM	5196	0	HOH W 284	-8.870	56.242	58.240	1.00 50.62
	ATOM	5197	ō	HOH W 285	16.582	61.670	59.151	1.00 38.20
	ATOM	5198	ō	HOH W 286	42.501	43.301	75.886	1.00 27.81
	ATOM	5199	ō	HOH W 287	25.604	33.439	84.786	1.00 21.08
30	ATOM	5200	ō	HOH W 288	13.520	67.352	52.561	1.00 39.75
	ATOM	5201	0	HOH W 289	9.627	28.198	45.908	1.00 37.35
	ATOM	5202	0	HOH W 290	18.134	36.512	88.493	1.00 43.01
	ATOM	5203	0	HOH W 291	22.300	20.482	81.874	1.00 37.81
	ATOM	5204	0	HOH W 292	44.203	41.289	79.602	1.00 27.00
35	MOTA	5205	0	HOH W 293	44.462	52.335	93.395	1.00 32.88
	MOTA	5206	0	HOH W 294	-2.968	37.813	43.815	1.00 39.42
	MOTA	5207	0	HOH W 295	14.615	50.638	83.483	1.00 40.84
	MOTA	5208	0	HOH W 296	17.655	48.236	85.049	1.00 38.41
40	ATOM	5209	0	HOH W 297	25.105	58.534	70.338	1.00 45.37
40	ATOM	5210	0	HOH W 298	6.153	22.174	58.465	1.00 51.17
	ATOM	5211	0	HOH W 299	14.099	45.045	75.129	1.00 38.12
	ATOM	5212	0	HOH W 300	3.614	33.798	78.265 70.086	1.00 33.77 1.00 31.30
	MOTA	5213	0	HOH W 301 HOH W 302	10.974 7.585	62.101 38.532	71.479	1.00 31.30
45	ATOM ATOM	521 <b>4</b> 5215	0	HOH W 302	20.998		74.359	1.00 37.38
43	ATOM	5215 5216	ŏ	HOH W 304	11.918	38.385	43.252	1.00 37.50
	ATOM	5217	o	HOH W 305	34.337	29.948	80.309	1.00 36.78
	ATOM	5218	ō	HOH W 306	39.120	63.630	75.316	1.00 43.48
	ATOM	5219	0	HOH W 307	36.491	64.702	80.717	1.00 19.64
50	ATOM	5220	ō	HOH W 308	-11.598	58.968	55.040	1.00 54.59
	ATOM	5221	0	HOH W 309	18.873	53.508	93.447	1.00 29.42
	ATOM	5222	0	HOH W 310	7.673	37.412	69.273	1.00 30.92
	ATOM	5223	0	HOH W 311	38.494	29.355	71.433	1.00 35.92
	MOTA	5224	0	HOH W 312	2.378	64.614	72.106	1.00 23.68
55	ATOM	5225	0	HOH W 313	34.055	22.747	70.419	1.00 47.42
	ATOM	5226	0	HOH W 314	6.517	15.338	63.891	1.00 39.21
	ATOM	5227	0	HOH W 315	33.135	58.667	95.357	1.00 38.27
	MOTA	5228	0	HOH W 316	7.877	41.088	68.810	1.00 30.88
	MOTA	5229	0	HOH W 317	4.500	63.686	62.465	1.00 40.54
60	ATOM	5230	0	HOH W 318	32.594	44.212	51.619	1.00 28.18
	ATOM	5231	0	нон w 319	19.892	28.363	50.295	1.00 37.48
	ATOM	5232	0	HOH W 320	38.121	42.209	58.482	1.00 35.42
	ATOM	5233	0	HOH W 321	18.953	60.209	59.879	1.00 32.37
	ATOM	5234	0	HOH W 322	-1.038	45.854	73.695	1.00 33.19

	3.0004	5005	_		c 202	21 625	70 220	1 00 40 50
	ATOM	5235	0	HOH W 323	-6.723	31.695	78.229	1.00 48.52
	MOTA	5236	0	HOH W 324	20.123	41.413	71.190	1.00 40.23
	MOTA	5237	0	HOH W 325	5.380	25.588	55 <b>.7</b> 51	1.00 26.30
	ATOM	5238	0	HOH W 326	-8.946	53.154	58.636	1.00 33.33
5	ATOM	5239	0	HOH W 327	5.224	20.615	65.617	1.00 38.04
-	ATOM	5240	ō	HOH W 328	-0.951	44.688	66.660	1.00 48.71
		5241		HOH W 329				
	ATOM		0		9.548	17.972	61.116	1.00 38.57
	ATOM	5242	0	HOH M 330	16.170	45.478	46.564	1.00 33.55
	ATOM	5243	0	HOH W 331	28.152	31.228	86.919	1.00 66.11
10	MOTA	5244	0	HOH W 332	-4.227	32.608	61.396	1.00 29.03
	MOTA	5245	0	HOH W 333	23.532	69.913	79.399	1.00 40.45
	ATOM	5246	0	HOH W 334	16.943	25.394	84.026	1.00 35.64
	ATOM	5247	ŏ	HOH W 335	-6.097	33.164	72.143	1.00 47.23
	ATOM	5248	Ö	HOH W 336	26.639	58.545	95.902	1.00 30.17
15								
13	ATOM	5249	0	HOH W 337	18.090	14.281	77.183	1.00 34.77
	MOTA	5250	0	HOH W 338	16.783	69.158	79.498	1.00 41.04
	MOTA	5251	0	HOH W 339	44.586	50.422	83.945	1.00 37.92
	MOTA	5252	0	HOH W 340	11.828	51.361	43.560	1.00 42.10
	MOTA	5253	0	HOH W 341	22.773	36.745	86.817	1.00 38.07
20	ATOM	5254	0	HOH W 342	26.608	43.969	74.943	1.00 32.64
	ATOM	5255	ō	HOH W 343	14.797	17.437	79.901	1.00 37.80
						40.414		1.00 53.20
	MOTA	5256	0	HOH W 344	32.755		86.886	
	MOTA	5257	0	HOH W 345	23.938	65.851	93.231	1.00 38.25
	MOTA	5258	0	HOH W 346	34.689	68.947	70.635	1.00 32.36
25	MOTA	5259	0	HOH W 347	32.902	14.779	66.467	1.00 55.05
	MOTA	5260	0	HOH W 348	-0.197	59.892	61.918	1.00 41.09
	ATOM	5261	0	HOH W 349	35.933	50.743	66.825	1.00 29.14
	ATOM	5262	0	HOH W 350	21.451	70.196	84.069	1.00 37.63
	ATOM	5263	ŏ	HOH W 351	10.392	34.055	71.909	1.00 37.36
30		5264	ŏ	HOH W 352		48.288	46.594	1.00 37.56
30	ATOM				16.118			
	ATOM	5265	0	HOH W 353	2.277	58.481	67.819	1.00 45.09
	MOTA	5266	0	HOH W 354	-21.140	42.970	52.987	1.00 38.49
	MOTA	5267	0	HOH W 355	0.364	56.797	65.209	1.00 34.76
	ATOM	5268	0	HOH W 356	9.763	37.511	72.464	1.00 36.84
35	ATOM	5269	0	HOH W 357	-3,293	29.651	64.159	1.00 48.44
	MOTA	5270	0	HOH W 358	18.653	59.497	55.820	1.00 41.32
	ATOM	5271	ō	HOH W 359	18.360	56.858	89.365	1.00 16.20
	ATOM	5272	Õ	HOH W 360	19.264	58.334	58.324	1.00 24.32
		5273						
40	ATOM		0	HOH W 361	19.786	68.920	85.535	1.00 36.46
40	ATOM	5274	.0	HOH W 362	0.891	46.454	70.028	1.00 49.40
	ATOM	5275	٥	HOH W 363	13.401	15.156	61.247	1.00 32.90
	ATOM	5276	0	HOH W 364	29.937	41.912	73.484	1.00 34.92
	MOTA	5277	0	нон w 365	28.117	39.053	82.612	1.00 29.94
	ATOM	5278	0	HOH W 366	17.060	44.064	76.687	1.00 31.64
45	ATOM	5279	0	HOH W 367	7.781	32.331	42.244	1.00 54.33
	ATOM	5280	ŏ	HOH W 368	13.484	60.143	67.092	1.00 36.32
		5281				65.695	69.472	1.00 30.93
	ATOM		0	HOH W 369	4.972			
	ATOM	5282	0	HOH W 370	20.859	55.364	94.926	1.00 35.05
	MOTA	5283	0	HOH W 371	29.891	64.316	94.062	1.00 32.43
50	ATOM	5284	0	HOH W 372	31.636	50.857	46.407	1.00 75.60
	MOTA	5285	Ο.	HOH W 373	-9.778	35.027	39.632	1.00 56.74
	ATOM	5286	0	HOH W 374	14.152	12.701	64.957	1.00 23.80
	ATOM	5287	ō	HOH W 375	35.419	45.143	64.442	1.00 36.74
		5288				57.375	97.888	1.00 34.34
55	ATOM		0	HOH W 376	34.839			
55	MOTA	5289	0	HOH W 377	35.027	44.946	53.379	1.00 45.25
	MOTA	5290	0	HOH W 378	10.904	44.942	78.238	1.00 46.33
	MOTA	5291	0	HOH W 379	2.265	29.749	79.673	1.00 55.34
	ATOM	5292	0	HOH W 380	38.376	37.663	83.485	1.00 48.83
	ATOM	5293	0	HOH W 381	7.069	18.511	64.588	1.00 42.75
60	ATOM	5294	ō	HOH W 382	10.013	63.184	65.119	1.00 51.27
00		5295	0	HOH W 383	26.880	67.265	80.460	1.00 31.27
	MOTA						39.529	1.00 23.17
	MOTA	5296	0	HOH W 384	5.435	44.858		
	MOTA	5297	0	HOH W 385	12.020	76.116	49.503	1.00 57.08
	MOTA	5298	0	HOH W 386	4.495	69.223	72.134	1.00 39.49

		ATOM	5299	0	нон w 387	34.373	34.834	52.407	1.00 45.73
		ATOM	5300	o	HOH W 388	-0.366	52.210	68.045	1.00 56.86
		ATOM	5301	ō	HOH W 389	15.108	39.899	89.165	1.00 30.62
		ATOM	5302	0	HOH W 390	20.977	60.725	61.985	1.00 42.08
	5	ATOM	5303	Ō	HOH W 391	29.038	14.547	63.725	1.00 33.69
		ATOM	5304	0	HOH W 392	34.064	66.637	81.988	1.00 37.83
		ATOM	5305	0	HOH W 393	8.669	71.915	54.348	1.00 40.01
		MOTA	5306	0	HOH W 394	4.823	29.577	79.259	1.00 42.09
		MOTA	5307	0	HOH W 395	22.745	32.929	42.078	1.00 50.18
	10	ATOM	5308	0	HOH W 396	0.658	29.749	51.236	1.00 30.86
		MOTA	5309	0	HOH W 397	3.793	58.214	86.346	1.00 62.42
		ATOM	5310	0	HOH W 398	12.206	40.564	89.850	1.00 39.66
		ATOM	5311	0	HOH W 399	21.573	25.561	53.053	1.00 34.62
	15	ATOM	5312	0	HOH W 400	30.197	56.551	58.739	1.00 40.16
	12	MOTA	5313	0	HOH W 401	20.406	59.350	64.941	1.00 33.97
		ATOM	5314	0	HOH W 402	16.956	52.960	87.724	1.00 54.35 1.00 42.51
		MOTA MOTA	5315 5316	0	HOH W 403 HOH W 404	36.719 7.458	27.459 27.206	68.822 77.481	1.00 42.31
		ATOM	5310	0	HOH W 404	36.220	64.298	90.593	1.00 51.29
	20	ATOM	5318	ŏ	HOH W 405	-17.985	43.406	48.900	1.00 31.23
		ATOM	5319	Ö	HOH W 407	1.914	29.246	53.120	1.00 38.28
		ATOM	5320	Õ	HOH W 408	-4.267	29.328	73.970	1.00 34.50
		ATOM	5321	ō	HOH W 409	14.000	53.360	42.218	1.00 42.56
		ATOM	5322	ō	HOH W 410	5.615	22.345	61.668	1.00 59.03
	25	ATOM	5323	0	HOH W 411	-3.455	50.442	63.951	1.00 44.90
		MOTA	5324	0	HOH W 412	29.002	38.811	44.563	1.00 43.27
		ATOM	5325	0	HOH W 413	37.416	55.208	61.603	1.00 42.90
		MOTA	5326	0	HOH W 414	14.459	14.960	73.514	1.00 42.33
	20	ATOM	5327	0	HOH W 415	35.076	48.768	98.233	1.00 41.69
	30	ATOM	5328	0	HOH W 416	6.452	56.342	86.263	1.00 34.79
		ATOM	5329	0	HOH W 417	35.573	17.694	66.735	1.00 40.65
		ATOM	5330	0	HOH W 418	28.756	59.314	74.937	1.00 35.85
		MOTA MOTA	5331 5332	0	HOH W 419 HOH W 420	12.955 23.309	64.913 24.474	53.664 50.751	1.00 37.44 1.00 45.73
	35	ATOM	5333	0	HOH W 421	4.924	27.771	55.010	1.00 45.75
	-	ATOM	5334	o	HOH W 422	19.668	63.675	93.111	1.00 41.69
		ATOM	5335	ō	HOH W 423	29.343	46.551	40.650	1.00 45.12
		ATOM	5336	Ō	HOH W 424	28.230	48.770	60.385	1.00 40.19
		MOTA	5337	0	HOH W 425	14.292	23.244	85.078	1.00 32.92
	40	MOTA	5338	0	HOH W 426	7.179	66.298	48.617	1.00 47.43
		MOTA	5339	0	HOH W 427	-11.542	35.315	64.224	1.00 45.74
		MOTA	5340	0	HOH W 428	-0.665	52.874	80.688	1.00 44.47
		ATOM	5341	0	HOH W 429	-1.483	67.437	44.508	1.00 88.79
	45	MOTA	5342	0	HOH W 430	13.367	66.767	63.127	1.00 62.36
	45	ATOM	5343	0	HOH W 431	35.060	48.549	63.034	1.00 39.85
		ATOM	5344	0	HOH W 432	11.721		42.372 85.980	1.00 56.11 1.00 51.35
		ATOM ATOM	5345 5346	0	HOH W 433 HOH W 434	14.261 38.915	27.588 34.680	61.103	1.00 45.58
:		ATOM	5347	ŏ	HOH W 435	23.421	46.416	42.605	1.00 43.02
-::	50	ATOM	5348	ō	HOH W 436	19.154	28.435	86.238	1.00 47.30
:		ATOM	5349	ŏ	HOH W 437	26.658	43.571	47.275	1.00 34.55
:		ATOM	5350	O	HOH W 438	15.725	45.758	43.317	1.00 43.06
:``		ATOM	5351	0	HOH W 439	36.546	66.825	82.882	1.00 30.83
		MOTA	5352	0	HOH W 440	8.498	74.001	52.039	1.00 46.91
	55	ATOM	5353	0	HOH W 441	27.161	71.692	92.146	1.00 39.00
		ATOM	5354	0	HOH W 442	27.946	33.322	85.163	1.00 33.09
:		ATOM	5355	0	HOH W 443	15.310	10.169	65.089	1.00 63.51
: :		ATOM	5356	0	HOH W 444	-13.474	41.923	71.321	1.00 44.29
•••	60	ATOM	5357	0	HOH W 445	-6.593	61.419	56.587	1.00 36.57
: ::	JU	ATOM	5358	0	HOH W 446	-4.107	19.122	50.753	1.00 80.39
		ATOM	5359	0	HOH W 447	21.809	59.754	43.571	1.00 64.03 1.00 51.13
1,11		ATOM ATOM	5360 5361	0	HOH W 448 HOH W 449	32.503 17. <b>43</b> 3	55.926 44.251	51.478 80.196	1.00 51.13
. · · · · .		ATOM	5361 5362	0	HOH W 449	-2.882	28.319	76.738	1.00 57.32
•••		ALON	J302	0	11011 M 430	2.002	20.313	, , , , , , ,	1.00 31.32

		3 max	5060	_	*****					
		ATOM	5363	0	нон и		8.921	18.143	71.756	1.00 45.59
		ATOM	5364	0	нон и		46.415	37.408	72.673	1.00 74.61
		ATOM	5365	0	HOH V		46.612	53.365	82.940	1.00 41.92
	5	ATOM	5366	0	нон и		39.885	53.691	74.043	1.00 45.59
	,	MOTA	5367	0	HOH V		28.187	69.890	80.215	1.00 33.51
		ATOM	5368	0	нон и		10.557	47.292	72.599	1.00 14.04
		MOTA	5369	0	HOH V		-0.687	61.537	70.644	1.00 40.63
		ATOM	5370 5371	0	HOH V		33.335	31.445	62.420	1.00 32.53
	10	ATOM ATOM	5372	0	нон и		26.658	39.474	43.256	1.00 32.50
	10	ATOM	5373	0	HOH W		30.185 20.780	25.893 39.620	82.542	1.00 45.40
		ATOM	5374	Ö	HOH W	-	-13.804	40.073	40.793 67.421	1.00 60.63
		ATOM	5375	Ö	HOH V		1.328	41.371	78.681	1.00 42.23
		ATOM	5376	Ö	HOH V		33.554	26.796	70.488	
	15	ATOM	5377	o	HOH V		34.317	54.835	70.488	1.00 37.48 1.00 57.37
	13	ATOM	5378	ŏ	HOH V		1.781	11.779	66.821	1.00 37.37
		ATOM	5379	Ö	HOH V		13.278	63.141	46.031	1.00 47.23
		ATOM	5380	Ö	HOH V		37.787		100.999	1.00 57.79
		ATOM	5381	Ö	HOH V		13.794	19.603	83.707	1.00 33.00
	20	ATOM	5382	Ö	HOH V		25.470	45.716	93.468	1.00 47.67
	20	ATOM	5383	Ö	HOH V		10.578	17.685	75.291	1.00 30.60
		ATOM	5384	ŏ	нон и		52.811	39.642	69.739	1.00 37.43
		ATOM	5385	ŏ	нон и		23.329	56.116	94.868	1.00 47.73
		ATOM	5386	Ö	нон и		35.936	48.711	65.428	1.00 58.05
	25	ATOM	5387	ŏ	HOH W		28.119	66.507	82.635	1.00 30.03
		ATOM	5388	ŏ	HOH W		-0.565	54.408	74.299	1.00 50.86
		ATOM	5389	ō	HOH W		4.072	70.416	58.486	1.00 35.45
		ATOM	5390	ŏ	HOH W		-3.762	26.579	63.779	1.00 53.91
		ATOM	5391	0	HOH W		19.595	35.426	41.883	1.00 51.58
	30	ATOM	5392	Ó	HOH W		24.800	7.578	70.043	1.00 41.13
		ATOM	5393	0	HOH W		17.947	10.147	65.643	1.00 58.35
		ATOM	5394	0	HOH W		31.312	44.348	64.437	1.00 48.49
		ATOM	5395	0	HOH W	483	46.224	50.030	81.043	1.00 53.87
		ATOM	5396	0	HOH W	1 484	35.129	52.464	51.431	1.00 54.76
	35	ATOM	5397	0	HOH W	1 485	5.885	65.189	84.813	1.00 83.91
		ATOM	5398	0	HOH W	486	20.281	16.200	55.863	1.00 46.25
		ATOM	5399	0	HOH W	487	-5.180	21.053	56.028	1.00 37.00
		ATOM	5400	0	HOH W		-11.188	38.067	41.229	1.00 69.22
	40	ATOM	5401	0	HOH W		15.256	67.180	75.313	1.00 51.22
	40	ATOM	5402	0	HOH W		3.374	63.019	56.672	1.00 42.46
		MOTA	5403	0	HOH W		30.082	15.975	73.952	1.00 49.06
		ATOM	5404	0	HOH W		-7.562	32.348	64.350	1.00 53.88
		ATOM	5405	0	HOH W		14.504	69.382	77.201	1.00 79.52
	4.5	MOTA	5406	0	HOH W		37.374	41.179	54.837	1.00 41.94
	45	ATOM	5407	0	HOH W		22.651	62.725	71.998	1.00 46.62
		ATOM	5408	0	HOH W		13.052	47.941	46.569	1.00 50.14
		MOTA	5409	0	HOH W		-1.906	45.997	36.480	1.00 62.33
		MOTA	5410	0	HOH W		35.740	52.464	53.693	1.00 55.17
• • • • • • • • • • • • • • • • • • • •	50	MOTA	5411	0	HOH W		30.727	32.353	49.843	1.00 56.92
:	30	ATOM	5412	0	HOH W		0.025	32.686	42.604	1.00 48.23
:		MOTA	5413	0	HOH W		47.830	56.735	86.611	1.00 47.42
:		ATOM	5414	0	HOH W		18.095	60.627	94.715	1.00 65.28
• • • • • • • • • • • • • • • • • • • •		ATOM	5415 5416	0	HOH W		2.306 -8.696	31.026 27.990	81.802	1.00 37.32 1.00 46.99
: - :	55	ATOM ATOM	5417	0	HOH W		22.034	70.217	79.237 89.142	1.00 46.99
	<i>J</i>	ATOM	5418	0	HOH W		22.034		87.005	1.00 47.13
<u> </u>		ATOM	5419	0	HOH W		-0.926	73.412 26.674	74.129	1.00 58.76
• • • • • • • • • • • • • • • • • • • •		ATOM	5420	0	HOH W		-6.108	48.377	71.102	1.00 58.76
::		ATOM	5421	0	HOH W		39.520	39.424	56.576	1.00 72.80
	60	ATOM	5422	0	HOH W		-4.081	58.518	47.377	1.00 72.00
•:	00	MOTA	5423	0	HOH W		34.434	23.876	75.179	1.00 48.53
		ATOM	5424	0	HOH W		17.400	63.380	50.267	1.00 40.76
• • • •		ATOM	5425	0	HOH W		9.647	61.533	68.296	1.00 46.31
: : :		ATOM	5426	ŏ	HOH W		41.430	58.961	99.800	1.00 49.23
•		0.1	0.20	•			11,100	55.551		

PHY SELECTION ( )

ATOM 5428 O HOH W 516 15.576 16.190 78.131 1.0  ATOM 5429 O HOH W 517 29.334 21.375 75.882 1.0  ATOM 5430 O HOH W 518 -1.624 50.514 39.683 1.0  5 ATOM 5431 O HOH W 519 8.771 69.104 72.705 1.0  ATOM 5432 O HOH W 520 -21.311 45.001 55.217 1.0  ATOM 5433 O HOH W 521 -1.392 54.790 67.171 1.0  ATOM 5434 O HOH W 522 38.464 56.277 74.548 1.0  ATOM 5435 O HOH W 523 33.977 32.491 81.832 1.0	0 53.90 0 63.93 0 50.18
ATOM 5429 O HOH W 517 29.334 21.375 75.882 1.0 ATOM 5430 O HOH W 518 -1.624 50.514 39.683 1.0  5 ATOM 5431 O HOH W 519 8.771 69.104 72.705 1.0 ATOM 5432 O HOH W 520 -21.311 45.001 55.217 1.0 ATOM 5433 O HOH W 521 -1.392 54.790 67.171 1.0 ATOM 5434 O HOH W 522 38.464 56.277 74.548 1.0 ATOM 5435 O HOH W 523 33.977 32.491 81.832 1.0	0 44.80 0 49.85 0 47.81 0 64.01 0 53.90 0 63.93 0 50.18
ATOM 5430 O HOH W 518 -1.624 50.514 39.683 1.0  5 ATOM 5431 O HOH W 519 8.771 69.104 72.705 1.0  ATOM 5432 O HOH W 520 -21.311 45.001 55.217 1.0  ATOM 5433 O HOH W 521 -1.392 54.790 67.171 1.0  ATOM 5434 O HOH W 522 38.464 56.277 74.548 1.0  ATOM 5435 O HOH W 523 33.977 32.491 81.832 1.0	0 47.81 0 64.01 0 53.90 0 63.93 0 50.18
5 ATOM 5431 O HOH W 519 8.771 69.104 72.705 1.0 ATOM 5432 O HOH W 520 -21.311 45.001 55.217 1.0 ATOM 5433 O HOH W 521 -1.392 54.790 67.171 1.0 ATOM 5434 O HOH W 522 38.464 56.277 74.548 1.0 ATOM 5435 O HOH W 523 33.977 32.491 81.832 1.0	0 64.01 0 53.90 0 63.93 0 50.18
ATOM 5432 O HOH W 520 -21.311 45.001 55.217 1.0 ATOM 5433 O HOH W 521 -1.392 54.790 67.171 1.0 ATOM 5434 O HOH W 522 38.464 56.277 74.548 1.0 ATOM 5435 O HOH W 523 33.977 32.491 81.832 1.0	0 53.90 0 63.93 0 50.18
ATOM 5433 O HOH W 521 -1.392 54.790 67.171 1.0 ATOM 5434 O HOH W 522 38.464 56.277 74.548 1.0 ATOM 5435 O HOH W 523 33.977 32.491 81.832 1.0	0 63.93 0 50.18
ATOM 5434 O HOH W 522 38.464 56.277 74.548 1.0 ATOM 5435 O HOH W 523 33.977 32.491 81.832 1.0	0 50.18
ATOM 5435 O HOH W 523 33.977 32.491 81.832 1.0	
	A 61 E7
10 ATOM 5436 O HOH W 524 16.060 54.317 91.714 1.0	0 61.57
ATOM 5437 O HOH W 525 21.009 33.700 89.176 1.0	0 65.31
	0 34.76
***************************************	0 44.57
	0 39.08
15 ATOM 5441 O HOH W 529 28.264 48.404 92.814 1.0	0 34.64
ATOM 5442 O HOH W 530 19.375 61.177 66.689 1.0	0 44.16
ATOM 5443 O HOH W 531 6.639 42.598 82.079 1.0	0100.00
111-011 0 111 0 11011 11 002	0 45.36
	0 44.76
20 111011 0 11011 11 001	0 52.28
111-011 0117 0 11011 11 000 221010 21011	0 51.28
ATOM 5448 O HOH W 536 -11.295 52.730 60.674 1.0	
	0 61.62
	0 58.72
	0 54.13
******	0 43.52
	0 47.12
	0 46.66
	0 55.58
30 ATOM 5456 O HOH W 544 -20.506 26.471 44.860 1.0	
	0 46.00
ATOM 5458 O HOH W 546 8.296 38.910 67.642 1.0	
	0 47.07
	0 52.82
	0 26.12
	0 20.78
ATOM 5463 O HOH W 551 34.529 66.786 72.611 1.0	0 36.24

Table 10: Structure coordinates of LTA₄ hydrolase-thiolamine complex

5	CRYST SCALE1 SCALE2 SCALE3	68.5	0.00	132. 1459 0000	150 83.2 0.00000 0.00757 0.00000	70 90.0 0.0000 0.0000 0.0120	0 0	90.00 1 0.00000 0.00000 0.00000	P21212
		1	Atom	res.	Chain No.	×	У	z	occ B-factor
10	ATOM ATOM ATOM ATOM	1 2 3 4	N CA C	PRO PRO PRO PRO	A 1 A 1	-0.593 -1.890 -2.210 -2.402	16.387 16.918 18.371 18.667	63.494 63.874 63.525 62.342	1.00 97.99 1.00 97.22 1.00100.00 1.00100.00
15	ATOM ATOM ATOM	5 6 7 8	CB CG CD N	PRO PRO PRO GLU	A 1 A 1 A 2	-2.130 -1.221 -0.290 -2.216	16.551 15.355 15.233 19.272	65.332 65.583 64.369 64.556	1.00 97.81 1.00100.00 1.00 97.05 1.00 96.95
20	ATOM ATOM ATOM ATOM ATOM	9 10 11 12 13	CA C O CB CG	GLU GLU GLU GLU	A 2 A 2 A 2	-2.569 -2.188 -2.512 -4.105 -4.587	20.678 21.701 21.542 20.768 21.732	64.314 65.386 66.562 64.214 63.125	1.00 95.71 1.00 94.33 1.00 93.21 1.00 97.26 1.00100.00
25	ATOM ATOM ATOM ATOM	14 15 16 17	N	GLU GLU GLU ILE	A 2 A 2 A 2 A 3	-4.351 -3.301 -5.361 -1.550	21.139 21.261 20.398 22.799	61.767 61.152 61.368 64.944	1.00100.00 1.00100.00 1.00100.00 1.00 86.29
30	ATOM ATOM ATOM	18 19 20 21	CA C O CB	ILE ILE ILE	A 3 A 3 A 3	-1.148 -2.006 -2.835 0.308	23.905 25.154 25.288 24.324	65.820 65.661 64.763 65.707	1.00 81.53 1.00 75.68 1.00 76.97 1.00 83.45
25	ATOM ATOM ATOM ATOM	22 23 24 25	CG2 CD1 N	ILE ILE VAL	A 3 A 3 A 4	0.452 1.198 -0.184 -1.725	25.521 23.160 25.361 26.099	64.759 65.300 63.375 66.523	1.00 83.63 1.00 84.76 1.00 91.36 1.00 61.54
35	ATOM ATOM ATOM	26 27 28 29	CA C O CB	VAL VAL VAL	A 4 A 4 A 4	-2.477 -1.658 -0.803 -3.514	27.303 28.552 28.694 27.318	66.482 66.623 67.512 67.595	1.00 56.32 1.00 50.98 1.00 47.84 1.00 58.99
40	ATOM ATOM ATOM ATOM ATOM	30 31 32 33 34	CG2 N CA	VAL VAL ASP ASP	A 4 A 5 A 5	-3.735 -4.819 -2.012 -1.403	28.754 26.691 29.486 30.782	68.047 67.131 65.732 65.763	1.00 58.40 1.00 58.56 1.00 39.38 1.00 32.64 1.00 36.35
45	ATOM ATOM ATOM ATOM	35 36 37 38	C CB CG	ASP ASP ASP ASP ASP	A 5 A 5 A 5	-2.308 -3.343 -1.252 -0.251 -0.069	31.596 32.051 31.492 32.581 33.123	66.634 66.171 64.400 64.563 65.635	1.00 38.30 1.00 30.79 1.00 29.96 1.00 35.01
50	ATOM ATOM ATOM ATOM	39 40 41 42		ASP THR THR THR	A 5 A 6 A 6	0.457 -1.931 -2.710 -2.701	32.831 31.745		1.00 29.81 1.00 32.32 1.00 32.08 1.00 40.63
55	ATOM ATOM ATOM	43 44 45 46		THR THR THR THR	A 6 A 6	-3.484 -2.357 -0.967 -2.789	34.759 32.171 32.322 30.741	69.132 70.295 70.505 70.604	1.00 46.68 1.00 44.71 1.00 51.05 1.00 35.79
	ATOM ATOM ATOM ATOM	47 48 49 50	N CA C O	CYS CYS CYS	A 7 A 7 A 7	-1.842 -1.797 -2.627 -2.780	34.480 35.923 36.329 37.523	67.656 67.335 66.129 65.875	1.00 32.51 1.00 28.92 1.00 31.49 1.00 25.42
60	ATOM ATOM ATOM ATOM	51 52 53 54	CB SG N CA	CYS CYS SER SER	A 7 A 7 A 8	-0.362 0.686 -3.140	36.410 35.944 35.315 35.508	67.107 68.518 65.383 64.158	1.00 27.38 1.00 32.02 1.00 34.03 1.00 32.97

Fry belief

	MOTA	55	С	SER A	8	-5	.410	35.136	64.264	1.00 33.52
	MOTA	56	0	SER A	8	-5	.744	34.137	64.866	1.00 32.89
	MOTA	57	CB	SER A	8	-3	.363	34.754	62.980	1.00 34.07
_	MOTA	58	OG	SER A	8		.017	35.182	61.798	1.00 36.65
5	MOTA	59	N	LEU A	9		.289	35.921	63.635	1.00 30.79
	ATOM	60	CA	LEU A	9		.724	35.649	63.672	1.00 31.91
	MOTA	61	С	LEU A	9		.198	35.009	62.377	1.00 36.07
	MOTA	62	0	LEU A	9		.359	34.626	62.216	1.00 38.61
10	ATOM	63	CB	LEU A	9		.514	36.958	63.874	1.00 32.47
10	MOTA	64	CG	LEU A	9		.306	37.688	65.212	1.00 35.39
	ATOM	65		LEU A	9		.113	38.983	65.193	1.00 32.27
	ATOM	66		LEU A	9		.746	36.816	66.397	1.00 33.25
	ATOM	67	N	ALA A	10		.273	34.933	61.443	1.00 28.63
1.5	ATOM	68	CA	ALA A	10		.545	34.408	60.147	1.00 27.14
15	ATOM	69	С	ALA A	10		.643	32.921	60.090	1.00 34.34
	MOTA	70	0	ALA A	10		.296	32.173	61.005	1.00 37.34
	MOTA	71	СВ	ALA A	10		.551	34.936	59.100	1.00 27.72
	ATOM	72	N	SER A	11		.130	32.503	58.959 58.708	1.00 32.08
20	ATOM	73	CA	SER A	11		.256	31.115		1.00 32.03 1.00 32.67
20	ATOM	74	C	SER A	11		.838	30.519	58.656 57.986	1.00 32.87
	ATOM	75 76	0	SER A	11		.927	31.028	57.401	1.00 29.29
	ATOM	76 77	CB	SER A	11		.013 .391	30.934 30.728	57.648	1.00 38.42
	ATOM ATOM	7 7 78	OG	SER A PRO A	11 12		.651	29.440	59.387	1.00 29.14
25	ATOM	76 79	N CA	PRO A	12		.370	28.786	59.476	1.00 26.83
23	ATOM	80	C	PRO A	12		.935	28.176	58.173	1.00 20.63
	ATOM	81	õ	PRO A	12		.737	28.007	57.284	1.00 35.89
	ATOM	82	СВ	PRO A	12		.544	27.698	60.540	1.00 28.28
	ATOM	83	CG	PRO A	12		.029	27.571	60.843	1.00 32.92
30	ATOM	84	CD	PRO A	12		.731	28.587	59.952	1.00 30.42
	ATOM	85	N	ALA A	13	-3	. 645	27.836	58.063	1.00 30.63
	ATOM	86	CA	ALA A	13	-3	.066	27.236	56.855	1.00 28.36
	MOTA	87	С	ALA A	13	-3	.644	25.852	56.576	1.00 33.99
	ATOM	88	0	ALA A	13	-3	. 455	25.240	55.528	1.00 31.60
35	ATOM	89	CB	ALA A	13	-1	.561	27.133	57.050	1.00 27.68
	MOTA	90	N	SER A	14		.338	25.352	57.571	1.00 31.10
	ATOM	91	CA	SER A	14		.919	24.069	57.469	1.00 30.66
	MOTA	92	С	SER A	14		.242	24.133	56.753	1.00 37.86
40	ATOM	93	0	SER A	14		.768	23.118	56.328	1.00 45.79 1.00 34.33
40	ATOM	94	СВ	SER A	14		.005	23.386	58.825	
	ATOM	95	OG	SER A	14		.006	23.978	59.621 56.630	1.00 41.01 1.00 32.80
	MOTA	96 97	N	VAL A	15 15		.785 .036	25.327 25.529	55.917	1.00 32.80
	MOTA MOTA	98	CA C	VAL A	15		.777	26.107	54.507	1.00 31.31
45	ATOM	99	0	VAL A	15		.241	25.576	53.494	1.00 31.96
15	ATOM	100	СВ	VAL A	15		.033	26.336	56.720	1.00 33.07
	ATOM	101		VAL A	15		.272	26.638	55.861	1.00 33.31
	ATOM	102		VAL A	15		.412	25.538	57.949	1.00 30.32
	ATOM	103	N	CYS A	16		.990	27.183	54.453	1.00 33.85
50	ATOM	104	CA	CYS A	16		.602	27.826	53.189	1.00 38.27
	ATOM	105	С	CYS A			.206	28.388	53.265	1.00 37.14
	MOTA	106	0	CYS A	16	-4	.616	28.534	54.322	1.00 39.70
	ATOM	107	CB	CYS A	16	-7	.589	28.870	52.581	1.00 42.09
	ATOM	108	SG	CYS A	16	-7	.844	30.418	53.540	1.00 47.38
55	ATOM	109	N	ARG A	17	-4	.679	28.722	52.132	1.00 32.10
	MOTA	110	CA	ARG A	17		.349	29,262	52.101	1.00 32.54
	MOTA	111	С	ARG A	17		.210	30.307	51.005	1.00 34.56
	MOTA	112	0	ARG A	17		.511	30.065	49.842	1.00 35.07
(0	ATOM	113	CB	ARG A	17		.371	28.152	51.758	1.00 36.83
60	MOTA	114	CG	ARG A	17		.779	27.391	52.915	1.00 40.61
	ATOM	115	CD	ARG A	17		.472	25.970	52.503	1.00 27.18
	ATOM	116	NE	ARG A	17		.963	25.026	53.501	1.00 52.41
	ATOM	117	CZ	ARG A	17		.244	24.036	54.035	1.00 69.41
	ATOM	118	NHT	ARG A	17	0	.020	23.812	53.683	1.00 54.86

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	ATOM	119	NH2	ARG A	17	-1.810	23.246	54.952	1.00 49.68
	ATOM	120	N	THR A	18	-2.711	31.454	51.378	1.00 27.06
	ATOM	121	CA	THR A	18	-2.489	32.477	50.428	1.00 26.12
	MOTA	122	С	THR A	18	-1.250	32.110	49.653	1.00 30.83
5	ATOM	123	0	THR A	18	-0.174	31.964	50.194	1.00 29.06
•	ATOM	124	СВ	THR A	18	-2.276	33.810	51.134	1.00 23.00
			OG1						
	ATOM	125			18	-3.481	34.261	51.738	1.00 32.95
	ATOM	126		THR A	18	-1.730	34.839	50.156	1.00 35.91
• •	ATOM	127	N	LYS A	19	-1.408	31.955	48.365	1.00 31.55
10	ATOM	128	CA	LYS A	19	-0.298	31.615	47.511	1.00 31.74
	ATOM	129	С	LYS A	19	0.359	32.848	46.906	1.00 33.90
	ATOM	130	0	LYS A	19	1.513	32.834	46.520	1.00 34.57
	ATOM	131	CB	LYS A	19	-0.795	30.697	46.398	1.00 36.08
	ATOM	132	CG	LYS A	19	-1.332	29.368	46.924	1.00 62.54
15	ATOM	133	CD	LYS A	19	-0.281	28.257	47.057	1.00 82.23
15									
	ATOM	134	CE	LYS A	19	0.093	27.880	48.496	1.00 77.50
	ATOM	135	NZ	LYS A	19	1.553	27.849	48.745	1.00 55.63
	MOTA	136	N	HIS A	20	-0.387	33.928	46.810	1.00 31.40
	ATOM	137	CA	HIS A	20	0.160	35.122	46.198	1.00 29.22
20	ATOM	138	С	HIS A	20	-0.655	36.345	46.517	1.00 34.68
	ATOM	139	0	HIS A	20	-1.833	36.239	46.846	1.00 35.34
	ATOM	140	CB	HIS A	20	0.123	34.956	44.666	1.00 26.47
	ATOM	141	CG	HIS A	20	0.865	36.022	43,970	1.00 26.77
	ATOM	142		HIS A	20	2.249	36.046	43.980	1.00 28.92
25		143							
23	ATOM			HIS A	20	0.415	37.091	43.280	1.00 27.43
	ATOM	144		HIS A	20	2.622	37.126	43.301	1.00 28.21
	ATOM	145		HIS A	20	1.536	37.781	42.865	1.00 28.18
	ATOM	146	N	LEU A	21	0.000	37.492	46.390	1.00 30.14
	ATOM	147	CA	LEU A	21	-0.596	38.782	46.610	1.00 31.02
30	MOTA	148	С	LEU A	21	-0.134	39.786	45.562	1.00 38.34
	ATOM	149	0	LEU A	21	1.073	39.952	45.312	1.00 37.30
	ATOM	150	CB	LEU A	21	-0.342	39.363	47.999	1.00 31.30
	ATOM	151	CG	LEU A	21	-0.611	40.880	48.047	1.00 32.33
	ATOM	152		LEU A	21	-2.088	41.192	48.324	1.00 27.10
35	ATOM	153		LEU A	21	0.277	41.522	49.100	1.00 27.10
55		154							
	ATOM		N	HIS A	22	-1.127	40.442	44.951	1.00 35.47
	ATOM	155	CA	HIS A	22	-0.895	41.452	43.920	1.00 34.24
	MOTA	156	С	HIS A	22	-1.249	42.742	44.550	1.00 33.99
40	ATOM	157	0	HIS A	22	-2.402	42.957	44.905	1.00 35.72
40	ATOM	158	CB	HIS A	22	-1.720	41.244	42.624	1.00 33.38
	ATOM	159	CG	HIS A	22	-1.350	42.256	41.615	1.00 35.97
	ATOM	160	ND1	HIS A	22	-0.030	42.576	41.384	1.00 38.81
	ATOM	161	CD2	HIS A	22	-2.125	43.043	40.830	1.00 39.07
	MOTA	162		HIS A	22	-0.019	43.534	40.462	1.00 38.66
45	ATOM	163		HIS A	22	-1.262	43.829	40.103	1.00 39.13
••	ATOM		N	LEU A	23	-0.235			
	ATOM	165	CA	LEU A	23	-0.416	44.793	45.405	1.00 33.32
	MOTA	166	С	LEU A	23	-0.203	45.949	44.440	1.00 44.46
	ATOM	167	0	LEU A	23	0.828	46.068	43.761	1.00 44.06
50	MOTA	168	CB	LEU A	23	0.446	44.882	46.680	1.00 33.72
	ATOM	169	CG	LEU A	23	-0.141	45.682	47.871	1.00 33.15
	ATOM	170	CD1	LEU A	23	0.780	46.835	48.172	1.00 26.07
	ATOM	171		LEU A	23	-1.539	46.213	47.609	1.00 35.39
	ATOM	172	N	ARG A	24	-1.256	46.765	44.395	1.00 42.83
55	ATOM	173	CA	ARG A	24	-1.406	47.964	43.596	1.00 41.79
<i></i>		174	C					44.562	
	ATOM			ARG A	24	-1.930	49.005		1.00 39.15
	ATOM	175	0	ARG A	24	-3.025	48.859	45.107	1.00 39.85
	MOTA	176	CB	ARG A	24	-2.458	47.716	42.504	1.00 46.35
	ATOM	177	CG	ARG A	24	-2.054	46.750	41.382	1.00 50.50
60	ATOM	178	CD	ARG A	24	-2.754	47.058	40.043	1.00 80.27
	ATOM	179	NE	ARG A	24	-4.200	46.798	40.062	1.00 95.12
	ATOM	180	CZ	ARG A	24	-5.152	47.703	39.826	1.00100.00
	ATOM	181		ARG A	24	-4.863	48.973	39.483	1.00100.00
	ATOM	182		ARG A	24		47.326	39.865	1.00100.00
	AT ON	102	MUZ	A UMA	<b>4</b>	-6.432	41.340	55.005	1.00100.00

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	ATOM	183	N	CYS		25	-1.164	50.028	44.844	1.00 32.39
	ATOM ATOM	184 185	CA C	CYS CYS		25 25	-1.698 -1.061	50.969 52.325	45.813 45.724	1.00 33.30 1.00 34.82
	ATOM	186	ō	CYS		25	-0.012	52.514	45.076	1.00 31.03
5	ATOM	187	CB	CYS		25	-1.503	50.440	47.257	1.00 34.67
	ATOM	188	SG	CYS		25	0.231	50.529	47.798	1.00 38.07
	ATOM ATOM	189 190	n Ca	SER SER		26 26	-1.711 -1.196	53.257 54.601	46.418 46.437	1.00 34.39 1.00 36.77
	ATOM	191	c .	SER		26	-0.963	55.133	47.821	1.00 39.85
10	MOTA	192	0	SER	A	26	~1.738	54.853	48,757	1.00 37.56
	MOTA	193	CB	SER		26	-1.889	55.600	45.530	1.00 42.70
	ATOM ATOM	194 195	og N	SER VAL		26 27	-0.899 0.133	56.330 55.897	44.824 47.886	1.00 61.74 1.00 39.43
	ATOM	196	CA	VAL		27	0.624	56.583	49.081	1.00 33.43
15	ATOM	197	C	VAL		27	0.209	58.043	49.082	1.00 44.32
	MOTA	198	0	VAL		27	0.562	58.799	48.187	1.00 45.24
	MOTA	199	CB	VAL		27	2.135	56.531	49.207	1.00 46.35
	MOTA MOTA	200 201		VAL VAL		27 27	2.524 2.592	57.207 55.079	50.522 49.178	1.00 45.62 1.00 47.20
20	MOTA	202	N N	ASP		28	~0.553	58.417	50.093	1.00 37.94
	ATOM	203	CA	ASP		28	-1.040	59.764	50.237	1.00 35.28
	ATOM	204	С	ASP		28	~0.595	60.366	51.538	1.00 33.85
	MOTA	205	0	ASP		28	-1.181	60.099	52.598	1.00 28.52
25	ATOM ATOM	206 207	CB CG	ASP ASP		28 28	-2.559 -3.055	59.807 61.205	50.189 50.095	1.00 37.09 1.00 55.20
20	ATOM	208		ASP		28	-2.611	62.119	50.767	1.00 59.17
	MOTA	209		ASP		28	-3.993	61.335	49.192	1.00 61.41
	MOTA	210	N	PHE		29	0.436	61.174	51.405	1.00 36.42
30	ATOM	211	CA	PHE		29	1.044	61.888	52.512	1.00 43.07
30	ATOM ATOM	212 213	C 0	PHE PHE		29 29	0.105 0.161	62.928 63.279	53.077 54.257	1.00 51.14 1.00 51.35
	ATOM	214	СВ	PHE		29	2.410	62.517	52.143	1.00 47.77
	MOTA	215	CG	PHE	Α	29	3.519	61.485	52.079	1.00 50.86
25	ATOM	216		PHE		29	4.066	60.957	53.247	1.00 52.08
35	ATOM ATOM	217 218		PHE PHE		29 29	3.996 5.075	61.001 59.995	50.863 53.215	1.00 53.94 1.00 52.83
	ATOM	219		PHE		29	5.013	60.046	50.813	1.00 56.46
	ATOM	220	CZ	PHE		29	5.559	59.538	51.992	1.00 53.39
40	MOTA	221	N	THR		30	-0.766	63.420	52.220	1.00 47.10
40	ATOM	222	CA	THR		30	-1.718	64.386	52.654 53.509	1.00 45.48
	ATOM ATOM	223 224	0	THR		30 30	-2.788 -3.045	63.715 64.082	54.649	1.00 48.41 1.00 48.64
	MOTA	225	СВ	THR		30	-2.283	65.097	51.434	1.00 54.06
	MOTA	226	OG1	THR	A	30	-1.428	66.186	51.107	1.00 30.00
45	MOTA	227		THR		30	-3.697	65.568	51.745	1.00 60.28
	ATOM ATOM	228 229	N CA	ARG ARG		31 31	-3.392 -4.404	62,683 61,987	52.978 53.734	1.00 46.66 1.00 47.88
	ATOM	230	CA	ARG		31	-3.826	60.999	54.750	1.00 47.88
	ATOM	231	ŏ	ARG		31	-4.590	60,468	55.551	1.00 41.52
50	ATOM	232	CB	ARG		31	-5.335	61.214	52.805	1.00 56.73
	ATOM	233	CG	ARG		31	-5.950	62.065	51.700	1.00 84.16
	MOTA MOTA	234 235	CD NE	ARG ARG		31 31	-7.338 -7.344	61.568 60.450	51.284 50.327	1.00100.00
	ATOM	236	CZ	ARG		31	-8.148	60.371	49.251	1.00100.00
55	MOTA	237		ARG		31	-9.034	61.324	48.944	1.00100.00
	MOTA	238		ARG		31	-8.062	59.298	48.460	1.00100.00
	MOTA	239	N	ARG		32	-2.489	60.752	54.683	1.00 39.71
	MOTA MOTA	240 241	CA C	ARG ARG		32 32	-1.751 -2.324	59.798 58.411	55.531 55.379	1.00 39.09 1.00 39.62
60	ATOM	242	o	ARG		32	-2.495	57.655	56.337	1.00 33.02
	ATOM	243	СВ	ARG		32	-1.523	60.115	57.022	1.00 37.14
	ATOM	244	CG	ARG		32	-1.197	61.569	57.337	1.00 71.25
	ATOM	245	CD	ARG		32	0.277	61.834	57.686	1.00100.00
	ATOM	246	NE	ARG	Α	32	0.703	61.299	58.986	1.00100.00

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	ATOM	247	CZ	ARG A	32	1.284	62.005	59.961	1.00 79.51
	MOTA	248	NH1	ARG A	32	1.522	63.308	59.831	1.00 55.73
	MOTA	249	NH2	ARG A		1.626	61.387	61.098	1.00 44.96
_	MOTA	250	N	THR A	33		58.068	54.139	1.00 39.83
5	MOTA	251	CA	THR A			56.752	53.902	1.00 39.31
	MOTA	252	С	THR A			56.010	52.760	1.00 41.13
	ATOM	253	0	THR A			56.574	51.926	1.00 42.93
	ATOM	254	СВ	THR A		-4.635	56.835	53.641	1.00 43.44
10	ATOM	255		THR A			57.636	52.468	1.00 40.17
10	MOTA	256		THR A		-5.245	57.468	54.880 52.762	1.00 38.71 1.00 35.26
	ATOM ATOM	257 258	n Ca	LEU A		-2.822 -2.372	54.717 53.799	51.745	1.00 35.20
	ATOM	259	c	LEU A		-3.632	53.293	51.098	1.00 33.20
	ATOM	260	ō	LEU A		-4.474	52.670	51.751	1.00 30.96
15	ATOM	261	СВ	LEU A		-1.522	52.651	52.322	1.00 37.07
	ATOM	262	CG	LEU A		-0.149	52.571	51.685	1.00 42.99
	ATOM	263	CD1	LEU A		0.648	51.425	52.285	1.00 40.58
	ATOM	264	CD2	LEU A	34	-0.360	52.302	50.208	1.00 50.83
	ATOM	265	N	THR A	A 35	-3.800	53.632	49.838	1.00 28.72
20	ATOM	266	CA	THR A		-5.017	53.228	49.198	1.00 31.26
	ATOM	267	C	THR A		-4.838	52.329	48.013	1.00 36.54
	ATOM	268	0	THR A		-3.940	52.546	47.187	1.00 34.70
	ATOM	269	CB	THR A		-5.877	54.427	48.813	1.00 44.88
25	ATOM	270		THR A		-5.484	55.549	49.579	1.00 58.59 1.00 49.42
23	ATOM ATOM	271 272	N	THR A		-7.324 -5.726	54.094 51.329	49.109 47.950	1.00 49.42
	ATOM	273	CA	GLY F		-5.696	50.405	46.837	1.00 32.37
	ATOM	274	C	GLY A		-6.418	49.074	46.993	1.00 34.50
	ATOM	275	ō	GLY A		-7.441	48.919	47.678	1.00 31.78
30	ATOM	276	N	THR A		-5.836	48.103	46.293	1.00 35.93
	MOTA	277	CA	THR A	37	-6.327	46.723	46.281	1.00 36.12
	ATOM	278	С	THR A		-5.268	45.696	46.473	1.00 35.67
	ATOM	279	0	THR A		-4.155	45.795	45.964	1.00 33.86
25	ATOM	280	CB	THR A		-7.119	46.306	45.050	1.00 42.21
35	ATOM	281		THR A		-6.507	46.804	43.870	1.00 30.98
	ATOM	282		THR A		-8.547 -5.687	46.793 44.705	45.229 47.220	1.00 50.03 1.00 32.95
	ATOM ATOM	283 284	n Ca	ALA A		-4.886	43.570	47.533	1.00 32.95
	ATOM	285	C	ALA A		-5.481	42.374	46.824	1.00 35.47
40	ATOM	286	ō	ALA A		-6.580	41.906	47.151	1.00 32.91
	ATOM	287	CB	ALA A		-4.845	43.341	49.044	1.00 33.72
	ATOM	288	N	ALA A		-4.764	41.874	45.834	1.00 32.70
	MOTA	289	CA	ALA A	39	-5.274	40.702	45.140	1.00 31.59
	MOTA	290	С	ALA A	1 39		39.464	45.770	1.00 32.11
45	ATOM	291	0	ALA A			39.147	45.608	1.00 32.46
	ATOM	292	СВ	ALA A			40.729	43.662	1.00 32.13
	ATOM		N	LEU A					1.00 27.06 1.00 29.04
	ATOM	294	CA	LEU A			37.593 36.322	47.155 46.364	1.00 29.04
50	MOTA MOTA	295 296	C O	LEU A			36.100	45.963	1.00 38.88
: 50	ATOM	297	СВ	LEU A			37.451	48.600	1.00 29.39
:	ATOM	298	CG	LEU A			38.598	49.559	1.00 31.39
	ATOM	299		LEU 2			38.063	50.970	1.00 32.62
• •	ATOM	300		LEU A			39.019	49.355	1.00 31.60
55	ATOM	301	N	THR A		-4.310	35.470	46.165	1.00 42.40
<b>:-</b> .	ATOM	302	CA	THR A	4 41		34.210	45.488	1.00 43.93
• • •	ATOM	303	C	THR A			33.155	46.552	1.00 43.75
: : :	ATOM	304	0	THR A			32.827	47.115	1.00 45.22
60	ATOM	305	CB	THR A			33.892	44.402	1.00 55.44 1.00 55.57
60	ATOM	306		THR A			34.885 32.544	43.418 43.802	1.00 47.78
	ATOM	307 308		THR I			32.544	46.848	1.00 47.78
• • •	ATOM ATOM	308	N CA	VAL Z			31.720	47.893	1.00 33.23
	ATOM	310	C	VAL A			30.312	47.380	1.00 40.56
	011	210	-	***************************************		0.200			

		ATOM	311	0	VAL A	42	-6.827	30.105	46.376	1.00 42.56
		MOTA	312	СВ	VAL A	42	-7.017	32.153	48.920	1.00 36.45
		ATOM	313		VAL A	42	-6.817	31.451	50.266	1.00 36.89
		ATOM	314		VAL A	42	-6.963	33.665	49.170	1.00 36.10
	5	ATOM	315	N	GLN A	43	-5.590	29.357	48.117	1.00 35.91
	_	ATOM	316	CA	GLN A	43	-5.678	27.945	47.838	1.00 31.59
		ATOM	317	C	GLN A	43	-6.346	27.244	48.988	1.00 38.98
		ATOM	318	ŏ	GLN A	43	-5.916	27.317	50.144	1.00 40.92
		ATOM	319	СВ	GLN A	43	-4.305	27.319	47.568	1.00 30.50
	10	ATOM	320	CG	GLN A	43	-4.362	25.800	47.259	1.00 53.80
	10	ATOM	321	CD	GLN A	43	-2.986	25.177	47.099	1.00 62.47
		ATOM	322		GLN A	43	-2.569	24.842	45.978	1.00 57.34
		ATOM	323		GLN A	43	-2.274	25.037	48.224	1.00 43.72
		ATOM	324	N	SER A	44	-7.423	26.555	48.664	1.00 33.83
	15	ATOM	325	CA	SER A	44	-8.166	25.839	49.678	1.00 31.38
		ATOM	326	C	SER A	44	-7.495	24.557	50.117	1.00 42.10
		ATOM	327	ŏ	SER A	44	-6.955	23.814	49.292	1.00 42.78
		ATOM	328	СВ	SER A	44	-9.576	25.530	49.226	1.00 28.60
		ATOM	329	OG	SER A	44	-10.234	24.785	50.224	1.00 34.57
	20	ATOM	330	N	GLN A	45	-7.579	24.286	51.423	1.00 38.84
		ATOM	331	CA	GLN A	45	-7.007	23.082	51.994	1.00 37.05
		ATOM	332	c	GLN A	45	-8.082	22.050	52.269	1.00 47.57
		ATOM	333	ō	GLN A	45	-7.801	20.917	52.678	1.00 42.94
		ATOM	334	CB	GLN A	45	-6.247	23.411	53.280	1.00 36.10
	25	ATOM	335	CG	GLN A	45	-5.246	24.539	53.034	1.00 54.73
		ATOM	336	CD	GLN A	45	-4.323	24.206	51.888	1.00 45.43
		MOTA	337		GLN A	45	-4.257	24.888	50.833	1.00 39.23
		ATOM	338		GLN A	45	-3.621	23.121	52.092	1.00 29.80
		ATOM	339	N	GLU A	46	-9.330	22.459	52.048	1.00 50.54
	30	ATOM	340	CA	GLU A	46	-10.454	21.573	52.283	1.00 50.99
		ATOM	341	С	GLU A	46	-11.496	21.583	51.179	1.00 54.49
		ATOM	342	0	GLU A	46	-11.518	22.406	50.261	1.00 54.00
		ATOM	343	CB	GLU A	46	-11.139	21.793	53.657	1.00 51.61
		ATOM	344	CG	GLU A	46	-10.581	22.979	54.454	1.00 55.93
	35	ATOM	345	CD	GLU A	46	-11.427	23.329	55.646	1.00 78.67
		ATOM	346	OE1	GLU A	46	-12.563	23.765	55.543	1.00 69.56
		MOTA	347	OE2	GLU A	46	-10.814	23.129	56.796	1.00 75.10
		ATOM	348	N	ASP A	47	-12.387	20.630	51.300	1.00 48.90
		MOTA	349	CA	ASP A	47	-13.450	20.549	50.362	1.00 49.03
	40	MOTA	350	С	ASP A	47	-14.591	21.425	50.846	1.00 55.15
		MOTA	351	0	ASP A	47	-14.760	21.631	52.044	1.00 56.66
		MOTA	352	CB	ASP A	47	-13.913	19.099	50.227	1.00 50.20
		ATOM	353	CG	ASP A	47	-13.083	18.376	49.218	1.00 66.88
		ATOM	354		ASP A	47	-12.340	18.945	48.434	1.00 66.27
	45	ATOM	355		ASP A	47	-13.235	17.081	49.284	1.00 76.37
		MOTA	356		ASN A		-15.391			1.00 50.25
		ATOM	357	CA	ASN A	48	-16.519	22.755	50.339	1.00 48.45
		ATOM	358	С	ASN A	48	-16.115	24.000	51.115	1.00 43.07
• "	50	ATOM	359	0	ASN A	48	-16.699	24.351	52.138	1.00 39.78
:	50	ATOM	360	СВ	ASN A	48	-17.559	21.909	51.117	1.00 51.19
:		ATOM	361	CG	ASN A	48	-18.985	22.417	51.005	1.00 76.39
•		ATOM	362		ASN A		-19.594	22.348	49.929	1.00 85.15
		ATOM	363		ASN A		-19.515	22.928	52.115	1.00 68.29
: :::	55	MOTA	364	N	LEU A		-15.113	24.688	50.628	1.00 35.36
	33	MOTA	365	CA	LEU A	49	-14.728	25.874	51.335	1.00 34.40
		ATOM	366	C	LEU A		-15.601	27.009	50.851	1.00 47.38
		ATOM	367	0	LEU A		-15.421	27.515	49.734	1.00 45.47
		ATOM	368	CB	LEU A		-13.239	26.152	51.173	1.00 31.04 1.00 29.82
- • • • · ·	60	ATOM	369	CG	LEU A		-12.781	27.394	51.885	1.00 29.82
•	. 00	ATOM	370 371		LEU A		-12.725	27.137	53.385 51.368	1.00 20.15
: : :		ATOM	371		LEU A		-11.394	27.753 27.363	51.699	1.00 50.24
-		ATOM ATOM	372 373	N CA	ARG A		-16.568 -17.560	28.392	51.401	1.00 52.83
: : :		ATOM	374	C	ARG A		-17.169	29.838	51.702	1.00 55.57
•		MOTA	3/4	C	AKG A	30	-11.109	49.030	31.702	1.00 00.07

	) TOM	275	^	200	<b>n</b>	<b>Ε</b> Λ	17 627	20 760	51.011	1.00 53.89
	ATOM	375	0	ARG A		50	-17.627	30.760		
	MOTA	376	CB	ARG A		50	-18.928	28.028	51.986	1.00 58.35
	ATOM	377	CG	ARG A		50	-19.863	27.354	50.980	1.00 74.76
_	MOTA	378	CD	ARG A		50	-20.438	26.024	51.462	1.00 81.60
5	ATOM	379	NE	ARG .		50	-21.214	25.355	50.415	1.00 94.37
	ATOM	380	CZ	ARG 2	A	50	-22.465	24.888	50.538	1.00100.00
	MOTA	381	NH1	ARG .	Α	50	-23.151	24.990	51.687	1.00100.00
	ATOM	382	NH2	ARG :	A	50	-23.046	24.297	49.471	1.00 74.34
	MOTA	383	N	SER I	Α	51	-16.331	30.006	52.743	1.00 54.71
10	ATOM	384	CA	SER .	Α	51	-15.823	31.297	53.224	1.00 53.49
	ATOM	385	С	SER .		51	-14.495	31.156	53.955	1.00 53.57
	ATOM	386	ō	SER .		51	-14.146	30.062	54.420	1.00 52.93
	ATOM	387	СВ	SER .		51	-16.788	31.900	54.232	1.00 54.03
	ATOM	388	OG	SER .		51	-16.871	31.048	55.373	1.00 45.15
15		389				52		32.298	54.067	1.00 47.19
13	ATOM		N	LEU .			-13.796		54.762	1.00 47.19
	MOTA	390	CA	LEU .		52	-12.519	32.422		
	ATOM	391	C	LEU .		52	-12.415	33.671	55.640	1.00 50.43
	ATOM	392	0	LEU .		52	-13.145	34.633	55.471	1.00 52.64
20	MOTA	393	CB	LEU .		52	-11.235	32.117	53.923	1.00 44.20
20	ATOM	394	CG	LEU .		52	-10.896	33.044	52.745	1.00 43.98
	MOTA	395		LEU .		52	-11.739	32.687	51.554	1.00 42.82
	ATOM	396	CD2	LEU !	A.	52	-11.128	34.501	53.094	1.00 44.71
	ATOM	397	N	VAL .	A	53	-11.483	33.658	56.579	1.00 44.97
	ATOM	398	CA	VAL A	A	53	-11.271	34.781	57.455	1.00 41.69
25	ATOM	399	С	VAL .	Α	53	-9.859	35.309	57.339	1.00 44.25
	MOTA	400	0	VAL	Α	53	-8.866	34.551	57.302	1.00 45.42
	ATOM	401	СВ	VAL	Α	53	-11.565	34.420	58.906	1.00 45.48
	ATOM	402	CG1			53	-11.223	35.554	59.853	1.00 44.94
	ATOM	403	CG2	VAL 2		53	-13.030	34.073	59.050	1.00 45.79
30	ATOM	404	N	LEU .		54	-9.796	36.627	57.166	1.00 35.12
	ATOM	405	CA	LEU .		54	-8.555	37.333	57.080	1.00 34.14
	MOTA	406	С	LEU		54	-8.377	38.207	58.326	1.00 38.92
	MOTA	407	Ō	LEU		54	-9.281	38.457	59.108	1.00 37.45
	MOTA	408	СВ	LEU		54	-8.461	38.216	55.831	1.00 34.73
35	ATOM	409	CG	LEU		54	-8.539	37.469	54.510	1.00 40.25
	ATOM	410		LEU .		54	-8.416	38.488	53.374	1.00 40.69
	ATOM	411		LEU .		54	-7.424	36.428	54.415	1.00 39.64
		412		ASP .		55	-7.192	38.674	58.524	1.00 35.02
	ATOM		N Gr							
40	ATOM	413	CA.	ASP .		55	-6.918	39.526	59.627	1.00 31.65
40	MOTA	414	C	ASP .		55	-6.956	40.941	59.078	1.00 40.38
	MOTA	415	0	ASP .		55	-6.754	41.151	57.886	1.00 39.98
	MOTA	416	CB	ASP .		55	-5.494	39.232	60.075	1.00 30.92
	ATOM	417	CG	ASP .		55	-5.397	38.103	61.037	1.00 35.96
	ATOM	418		ASP .		55	-6.049	38.074	62.066	1.00 38.49
45	ATOM	419	OD2	ASP .		55	-4.491	37.205	60.682	1.00 36.53
	ATOM	420	И	THR .	Α	56	-7.196	41.900	59.963	1.00 42.93
	ATOM	421	CA	THR .	Α	56	-7.243	43.334	59.661	1.00 41.75
	ATOM	422	С	THR .	Α	56	-7.101	44.128	60.967	1.00 37.46
	ATOM	423	0	THR .	A	56	-7.517	43.687	62.049	1.00 36.98
50	ATOM	424	CB	THR .		56	-8.514	43.825	58.894	1.00 37.17
	ATOM	425		THR .		56	-9.587	43.957	59.805	1.00 31.84
	ATOM	426		THR		56	-8.910	42.943	57.714	1.00 33.58
	ATOM	427	N	LYS		57	-6.513	45.304	60.863	1.00 26.63
	ATOM	428	CA	LYS		57	-6.363	46.134	62.020	1.00 25.64
55	ATOM	429	C	LYS		57	-6.585	47.539	61.547	1.00 30.08
	ATOM	430	o	LYS .		57	-5.854	48.012	60.711	1.00 25.68
	ATOM	431	CB	LYS .		57	-4.991	45.983	62.641	1.00 23.38
									64.100	1.00 27.34
	MOTA	432	CG	LYS .		57 57	-4.907 -3.514	46.387		1.00 35.83
60	ATOM	433	CD	LYS		57 57	-3.514	46.904	64.471	
JU	ATOM	434	CE	LYS .		57 57	-2.901	46.225	65.689	1.00 50.54 1.00 55.43
	ATOM	435	ΝZ	LYS .		57 50	-2.521 -7.617	47.180	66.757	
	ATOM	436	N	ASP .		58		48.188	62.065	1.00 32.68 1.00 35.27
	ATOM	437	CA	ASP .		58	-7.895	49.545	61.665	1.00 35.27
	ATOM	438	С	ASP .	М	58	-7.894	49.710	60.149	1.00 30.24

	ATOM	439	0	ASP A	58	-7.289	50.627	59.571	1.00 35.86
	MOTA	440	CB	ASP A	58	-6.968	50.550	62.386	1.00 37.22
	MOTA	441	CG	ASP A		-7.041	50.393	63.880	1.00 50.71
	ATOM	442		ASP A		-8.073	50.136	64.478	1.00 57.20
5									
,	ATOM	443		ASP A		-5.878	50.562	64.463	1.00 45.82
	ATOM	444	N	LEU A		-8.604	48.796	59.516	1.00 37.68
	MOTA	445	CA	LEU A	59	-8.720	48.813	58.079	1.00 39.36
	ATOM	446	С	LEU A	59	-10.077	49.243	57.555	1.00 45.51
	ATOM	447	Ō	LEU A		-11.146	48.946	58.120	1.00 44.18
10	ATOM	448	СВ	LEU A		-8.265			1.00 38.42
10							47.506	57.422	
	ATOM	449	CG	LEU A		-6.762	47.475	57.218	1.00 37.40
	ATOM	450		LEU A		-6.392	46.173	56.526	1.00 36.39
	ATOM	451	CD2	LEU A	59	-6.321	48.655	56.361	1.00 36.57
	ATOM	452	N	THR A	60	-9.984	49.949	56.437	1.00 42.59
15	MOTA	453	CA	THR A	60	-11.132	50.483	55.734	1.00 42.63
	ATOM	454	C	THR A		-11.357	49.705	54.463	1.00 38.18
	ATOM	455	Ö						
				THR A		-10.632	49.856	53.454	1.00 34.33
	ATOM	456	CB	THR A		-11.030	52.028	55.532	1.00 65.15
••	ATOM	457	OG1	THR A	60	-11.806	52.736	56.504	1.00 67.56
20	ATOM	458	CG2	THR A	60	-11.345	52.480	54.104	1.00 56.89
	ATOM	459	N	ILE A	61	-12.360	48.847	54.571	1.00 33.39
	ATOM	460	CA	ILE A		-12.753	47.975	53.482	1.00 35.89
	ATOM	461	C	ILE A		-13.726	48.634	52.533	1.00 41.05
25	ATOM	462	0	ILE A	61	-14.913	48.706	52.840	1.00 40.08
25	ATOM	463	CB	ILE A		-13.403	46.670	53.944	1.00 39.71
	ATOM	464	CG1	ILE A	61	-12.482	45.826	54.832	1.00 39.90
	ATOM	465	CG2	ILE A	61	-13.788	45.900	52.691	1.00 38.96
	ATOM	466	CD1	ILE A	61	-11.027	45.851	54.358	1.00 49.61
	ATOM	467	N	GLU A	62	-13.219	49.080	51.391	1.00 40.23
30	ATOM	468	CA	GLU A	62	-14.040	49.700	50.365	1.00 41.73
50									
	ATOM	469	С	GLU A	62	-14.986	48.633	49.826	1.00 47.09
	ATOM	470	0	GLU A	62	-16.207	48.726	49.926	1.00 47.52
	ATOM	471	CB	GLU A	62	-13.138	50.272	49.239	1.00 44.08
	ATOM	472	CG	GLU A	62	-13.765	51.406	48.381	1.00 64.08
35	ATOM	473	CD	GLU A	62	-14.686	50.946	47.256	1.00100.00
	ATOM	474	OE1	GLU A	62	~15.458	50.002	47.376	1.00100.00
	ATOM	475	OE2	GLU A	62	-14.591	51.670	46.146	1.00 75.11
	ATOM	476	N	LYS A	63	-14.399	47.580	49.267	1.00 43.46
40	ATOM	477	CA	LYS A	63	-15.168	46.474	48.746	1.00 40.53
40	ATOM	478	С	LYS A	63	-14.250	45.307	48.489	1.00 45.38
	MOTA	479	0	LYS A	63	-13.046	45.500	48.362	1.00 43.51
	ATOM	480	CB	LYS A	63	-15.818	46.830	47.428	1.00 40.46
	ATOM	481	CG	LYS A	63	-14.789	46.959	46.321	1.00 20.53
	ATOM	482	CD	LYS A	63	-15.367	47.555	45.054	1.00 28.36
45									
43	ATOM	483	CE	LYS A	63	-14.315	48.158	44.139	1.00 40.61
	ATOM	484	NZ	LYS A		-14.588	47.938	42.711	1.00 54.71
	ATOM	485	N	VAL A	64	-14.862	44.116	48.441	1.00 45.57
	MOTA	486	CA	VAL A	64	-14.190	42.844	48.171	1.00 44.90
	ATOM	487	С	VAL A	64	-14.666	42.263	46.841	1.00 46.44
50	ATOM	488	0	VAL A	64	-15.826	41.917	46.700	1.00 45.81
	ATOM	489	СВ	VAL A	64	-14.505	41.748	49.192	1.00 46.24
	ATOM	490		VAL A					
					64	-13.864	40.471	48.669	1.00 44.81
	ATOM	491		VAL A	64	-14.040	42.048	50.627	1.00 44.77
5 E	MOTA	492	N	VAL A	65	-13.793	42.099	45.875	1.00 43.10
55	MOTA	493	CA	VAL A	65	-14.240	41.537	44.604	1.00 41.42
	ATOM	494	С	VAL A	65	-13.707	40.156	44.282	1.00 42.13
	ATOM	495	Ō	VAL A	65	-12.605	39.787	44.660	1.00 42.64
	ATOM	496	СВ	VAL A	65				
						-13.856	42.462	43.484	1.00 44.58
60	ATOM	497		VAL A	65	-14.520	42.037	42.189	1.00 42.79
UU	ATOM	498		VAL A	65	-14.264	43.874	43.883	1.00 45.05
	ATOM	499	N	ILE A	66	-14.515	39.402	43.556	1.00 38.68
	MOTA	500	CA	ILE A	66	-14.179	38.053	43.113	1.00 39.98
	ATOM	501	С	ILE A	66	-14.899	37.774	41.802	1.00 44.86
	ATOM	502	ō	ILE A	66				
	111 014	J 02	_	א טעג	00	-16.136	37.735	41.729	1.00 42.69

	ATOM	503	CB	ILE A	66	-14.520	36.947	44.113	1.00 44.28
	ATOM	504	CG1	ILE A	66	-13.813	37.127	45.445	1.00 47.27
	ATOM	505	CG2		66	-14.141	35.578	43.550	1.00 42.84
_	MOTA	506	CD1	ILE A	66	-14.352	36.169	46.514	1.00 38.79
5	ATOM	507	N	ASN A	67	-14.120	37.549	40.759	1.00 42.94
	ATOM	508	CA	ASN A	67	-14.715	37.266	39.472	1.00 44.24
	MOTA	509	С	ASN A	67	-15.541	38.444	39.008	1.00 54.25
	MOTA	510	0	ASN A	67	-16.743	38.344	38.768	1.00 57.56
	MOTA	511	CB	ASN A	67	-15.595	36.007	39.507	1.00 40.72
10	ATOM	512	CG	ASN A	67	-14.788	34.759	39.745	1.00 57.39
20									
	ATOM	513		ASN A	67	-13.581	34.711	39.454	1.00 52.63
	MOTA	514	ND2	ASN A	67	-15.446	33.760	40.317	1.00 44.54
	ATOM	515	N	GLY A	68	-14.876	39.574	38.899	1.00 50.43
	ATOM	516	CA	GLY A	68	-15.517	40.796	38.462	1.00 48.89
1.5									
15	ATOM	517	С	GLY A	68	-16.807	41.115	39.194	1.00 48.77
	ATOM	518	0	GLY A	68	-17.523	42.018	38.803	1.00 51.39
	ATOM	519	N	GLN A	69	-17.129	40.385	40.244	1.00 40.06
	ATOM	520	CA	GLN A	69	-18.348	40.716	40.928	1.00 40.02
	MOTA	521	С	GLN A	69	-18.031	41.059	42.364	1.00 50.45
20	ATOM	522	0	GLN A	69	-16.943	40.748	42.855	1.00 50.53
	ATOM	523	СВ	GLN A	69	-19.415	39.602	40.829	1.00 40.78
	ATOM	524	CG	GLN A	69	-19.966	39.367	39.414	1.00 23.77
	ATOM	525	CD	GLN A	69	-20.513	40.646	38.831	1.00 56.53
	MOTA	526	OE1	GLN A	69	-19.974	41.198	37.859	1.00 55.28
25	ATOM	527	NE2	GLN A	69	-21.588	41.134	39.437	1.00 62.26
25									
	ATOM	528	N	GLU A	70	-18.975	41.718	43.028	1.00 49.43
	ATOM	529	CA	GLU A	70	-18.766	42.094	44.407	1.00 50.67
	ATOM	530	С	GLU A	70	-19.296	40.996	45.288	1.00 57.90
	ATOM	531	Ö	GLU A	70	-20.272	40.367	44.909	1.00 63.90
20									
30	ATOM	532	СB	GLU A	70	-19.449	43.434	44.732	1.00 52.26
	ATOM	533	CG	GLU A	70	-18.824	44.624	43.970	1.00 64.80
	ATOM	534	CD	GLU A	70	-19.181	45.967	44.555	1.00 91.82
	MOTA	535	OE1		70	-19.749	46.108	45.629	1.00100.00
	ATOM	536	OE2	GLU A	70	-18.814	46.963	43.785	1.00 76.01
35	ATOM	537	N	VAL A	71	-18.655	40.742	46.433	1.00 47.28
	ATOM	538	CA	VAL A	71	-19.119	39.685	47.335	1.00 43.84
	MOTA	539	C	VAL A	71	-19.434	40.153	48.768	1.00 41.62
	MOTA	540	0	VAL A	71	-18.983	41.206	49.254	1.00 35.70
	MOTA	541	CB	VAL A	71	-18.308	38.361	47.273	1.00 46.05
40	ATOM	542	CG1	VAL A	71	-18.062	37.923	45.827	1.00 45.19
• -	ATOM	543		VAL A	71	-16.979	38.460	48.017	1.00 45.24
	ATOM	544	N	LYS A	72	-20.239	39.343	49.431	1.00 39.34
	ATOM	545	CA	LYS A	72	-20.610	39.594	50.792	1.00 42.40
	ATOM	546	С	LYS A	72	-19.347	39.466	51.668	1.00 56.92
45				LYS A	72			51.334	
43	ATOM	547	0			-18.399	38.729		1.00 59.27
	ATOM	548	CB	LYS A	72	-21.719	38.629	51.211	1.00 45.76
	ATOM	549	CG	LYS A	72	-22.378	38.960	52.557	1.00 86.98
	ATOM	550	CD	LYS A	72	-23.898	38.767	52.606	1.00100.00
	ATOM	551			72	-24.656		53.077	
50			CE	LYS A			40.012		1.00100.00
50	MOTA	552	NZ	LYS A	72	-26.011	39.730	53.592	1.00100.00
	ATOM	553	N -	TYR A	73	~19.332	40.210	52.780	1.00 55.45
	ATOM	554	CA	TYR A	73	-18.236	40.226	53.747	1.00 53.31
	MOTA	555	C	TYR A	73	-18.636	40.884	55.068	1.00 50.87
	MOTA	556	0	TYR A	73	-19.552	41.703	55.139	1.00 47.82
55	MOTA	557	CB	TYR A	73	-16.891	40.741	53.214	1.00 52.73
	ATOM	558	CG	TYR A	73	-16.765	42.244	53.227	1.00 51.76
	ATOM	559		TYR A	73	-16.539	42.946	54.416	1.00 52.82
	MOTA	560	CD2	TYR A	73	-16.927	42.967	52.039	1.00 53.30
	MOTA	561		TYR A	73	-16.439	44.340	54.422	1.00 52.71
60	ATOM	562		TYR A	73		44.359	52.026	1.00 55.39
50						-16.804			
	ATOM	563	CZ	TYR A	73	-16.592	45.044	53.229	1.00 63.45
	ATOM	564	OH	TYR A	73	-16.471	46.404	53.215	1.00 69.53
	ATOM	565	N	ALA A	74	-17.927	40.494	56.112	1.00 45.37
									t and the second
	MOTA	566	CA	ALA A	74	-18.180	40.999	57.433	1.00 42.62

		MOTA	567	С	ALA A	74	-16.892	41.265	58.222	1.00 47.81
		MOTA	568	ō	ALA A		-15.894	40.554	58.133	1.00 45.50
		ATOM	569	CB	ALA A		-19.111	40.035	58.170	1.00 40.75
		MOTA	570	N	LEU A		-16.930	42.323	59.005	1.00 49.02
	5	ATOM	571	CA	LEU A		-15.829	42.693	59.869	1.00 48.85
	•	ATOM	572	C	LEU A		-16.319	42.464	61.281	1.00 47.18
		ATOM	573	ō	LEU A		-17.309	43.021	61.687	1.00 44.35
		ATOM	574	CB	LEU A		-15.332	44.136	59.675	1.00 49.64
		MOTA	575	CG	LEU A		-14.789	44,357	58.270	1.00 58.09
	10	ATOM	576		LEU A		-14.524	45.841	58.023	1.00 61.34
		ATOM	577	_	LEU A		-13.512	43.565	58.069	1.00 62.34
		ATOM	578	N	GLY A		-15.647	41.592	62.004	1.00 47.67
		ATOM	579	CA	GLY A		-16.034	41.281	63.359	1.00 46.79
		ATOM	580	C	GLY A		-15.495	42.337	64.279	1.00 47.74
	15	ATOM	581	0	GLY A		-14.656	43,171	63.882	1.00 47.74
	10		582	N						1.00 48.32
		ATOM			GLU A		-15.988	42.311	65.502	
		ATOM	583	CA	GLU A		-15.526	43,300	66.431	1.00 52.14
		ATOM	584	С	GLU A		-14.029	43.195	66.679	1.00 56.71
	20	ATOM	585	0	GLU A		-13.418	42,120	66.591	1.00 55.78
	20	MOTA	586	CB	GLU A		-16.357	43.341	67.732	1.00 55.55
		MOTA	587	CG	GLU A		-17.198	42,063	67.969	1.00 79.57
		ATOM	588	CD	GLU A		-17.440	41.739	69.427	1.00100.00
		ATOM	589	OE1			-16.537	41.435	70.211	1.00100.00
	25	ATOM	590		GLU A		-18.712	41.799	69.770	1.00100.00
	23	ATOM	591	N	ARG A		-13.452	44.344	67.000	1.00 54.17
		ATOM	592	CA	ARG A		-12.041	44.433	67.298	1.00 53.38
		ATOM	593	С	ARG A		-11.627	43.656	68.579	1.00 58.88
		ATOM	594	0	ARG A		-12.247	43.767	69.635	1.00 61.35
	30	MOTA	595	CB	ARG A		-11.571	45.891	67.367	1.00 41.96
	30	ATOM	596	CG	ARG A		-10.050	46.006	67.326	1.00 38.20
		ATOM	597	CD	ARG A		-9.537	47.411	67.551	1.00 44.73
		ATOM	598	NE	ARG A		-8.294	47.648	66.842	1.00 66.47
		MOTA	599	CZ	ARG A		-7.250	48.247	67.389	1.00 97.61
	25	ATOM	600		ARG A		-7.276	48.692	68.645	1.00100.00
	35	ATOM	601		ARG A		-6.151	48.413	66.663	1.00 80.10
		ATOM	602	N	GLN A		-10.557	42.857	68.463	1.00 49.54
		ATOM	603	CA	GLN A		-9.995	42.115	69.566	1.00 47.71
		ATOM	604	C	GLN A		-8.664	42.789	69.865	1.00 49.77
	40	ATOM	605	0	GLN A		-7.626	42.421	69.333	1.00 52.63
	40	ATOM	606	CB	GLN A		-9.803	40.613	69.240	1.00 49.05
		ATOM	607	CG	GLN A		-11.109	39.794	69.339	1.00 57.32
		ATOM	608	CD	GLN A		-11.043	38.435	68.656	1.00 69.51
		ATOM	609		GLN A		-10.400	37.480	69.152	1.00 49.72
	AE	ATOM	610	NE2			-11.727	38.340	67.517	1.00 62.60
	45	ATOM	611	N	SER A		-8.699	43.826	70.683	1.00 41.74
		MOTA	612	CA	SER A		-7.490	44.543	71.022	1.00 37.90
		ATOM	613	С	SER A		-6.437	44.559	69.920	1.00 35.98
:		ATOM	614	0	SER A		-6.736	44.939	68.801	1.00 34.52
	50	ATOM	615	СВ	SER A		-6.910	44.144	72.372	1.00 39.07
:	50	MOTA	616	OG	SER A		-7.255	42,803	72.684	1.00 61.32
;		ATOM	617	N	TYR A		-5.206	44.154	70.289	1.00 29.92
::::		MOTA	618	CA	TYR A		-4.027	44.114	69.430	1.00 26.45
•		ATOM	619	С	TYR A		-4.163	43.116	68.285	1.00 30.82
	<i>E E</i>	ATOM	620	0	TYR A		-3.480	43.215	67.269	1.00 34.48
<u>.</u> .	55	ATOM	621	СВ	TYR P		-2.727	43.893	70.257	1.00 25.19
		ATOM	622	CG	TYR A		-2.713	42.491	70.839	1.00 24.57
• • • •		ATOM	623		TYR A		-3.327	42.247	72.066	1.00 27.27
:_::		MOTA	624		TYR A		-2.165	41.410	70.148	1.00 21.82
	60	ATOM	625		TYR A		-3.380	40.975	72.632	1.00 26.49
<b>:</b> ::	60	MOTA	626		TYR A		-2.230	40.122	70.682	1.00 23.48
		ATOM	627	CZ	TYR A		-2.827	39.908	71.930	1.00 38.28
• • •		MOTA	628	ОН	TYR A		-2.889	38.653	72.493	1.00 42.17
· · · · · ·		MOTA	629	N	LYS A		-5.038	42.136	68.415	1.00 26.97
•		ATOM	630	CA	LYS A	82	-5.170	41.229	67.293	1.00 27.99

•:••:

ATOM

694

N

PRO A

91

-18.626

32,607

46.683

1.00 54.81

	MOTA	695	CA	PRO A	91	-19.756	32.183	45.870	1.00 58.45
	ATOM	696	С	PRO A	91	-19.585	30.782	45.254	1.00 67.78
	MOTA	697	0	PRO A	91	-20.500	30.250	44.623	1.00 68.64
	ATOM	698	CB	PRO A	91	-19.843	33.213	44.738	1.00 59.70
5	ATOM	699	CG	PRO A	91	-18.503	33.952	44.711	1.00 61.25
_	ATOM	700	CD	PRO A	91	-17.731	33.539	45.961	1.00 54.16
	ATOM	701							
			N	ILE A	92	-18.413	30.177	45.416	1.00 64.82
	ATOM	702	CA	ILE A	92	-18.210	28.863	44.850	1.00 65.03
10	ATOM	703	С	ILE A		-17.485	27.948	45.801	1.00 66.34
10	ATOM	704	0	ILE A	92	-16.258	27.984	45.865	1.00 70.20
	MOTA	705	CB	ILE A	92	-17.433	28.927	43.547	1.00 69.56
	ATOM	706	CG1	ILE A	92	-18.298	29.495	42.430	1.00 70.02
	ATOM	707	CG2	ILE A	92	-16.975	27.517	43.171	1.00 71.86
	ATOM	708	CD1	ILE A	92	-17.528	29.672	41.121	1.00 80.63
15	MOTA	709	N	ALA A	93	-18.219	27.115	46.534	1.00 54.40
	ATOM	710	CA	ALA A	93	-17.526	26.247	47.452	1.00 51.74
	ATOM	711	C		93				
				ALA A		-16.265	25.750	46.804	1.00 52.66
	ATOM	712	0	ALA A	93	-16.288	25.319	45.662	1.00 49.87
20	ATOM	713	CB	ALA A	93	-18.367	25.101	47.968	1.00 52.76
20	ATOM	714	N	LEU A	94	-15.162	25.861	47.544	1.00 48.18
	ATOM	715	CA	LEU A	94	-13.862	25.425	47.067	1.00 43.27
	ATOM	716	С	LEU A	94	-13.566	24.066	47.581	1.00 43.98
	MOTA	717	0	LEU A	94	-14.086	23.633	48.601	1.00 44.63
	ATOM	718	CB	LEU A	94	-12.713	26.344	47.509	1.00 41.05
25	MOTA	719	CG	LEU A	94	-12.685	27.638	46.739	1.00 40.03
	ATOM	720		LEU A	94	-11.272	28.200	46.751	1.00 36.88
	ATOM	721		LEU A	94	-13.115	27.343	45.311	1.00 44.98
	ATOM	722	N N						
				SER A	95	-12.706	23.406	46.875	1.00 43.26
30	MOTA	723	CA	SER A	95	-12.321	22.074	47.256	1.00 43.76
30	ATOM	724	C	SER A	95	-10.807	21.991	47.344	1.00 38.58
	ATOM	725	0	SER A	95	-10.087	22.944	46.975	1.00 36.78
	ATOM	726	CB	SER A	95	-12.902	21.092	46.256	1.00 51.55
	ATOM	727	OG	SER A	95	-14.299	21.305	46.156	1.00 62.74
	ATOM	728	N	LYS A	96	-10.321	20.863	47.830	1.00 31.10
35	ATOM	729	CA	LYS A	96	-8.883	20.723	47.958	1.00 34.92
	ATOM	730	С	LYS A	96	-8.058	21.238	46.777	1.00 45.63
	ATOM	731	0	LYS A	96	-8.400	21.063	45.612	1.00 49.35
	ATOM	732	CB	LYS A	96	-8.401	19.366	48.451	1.00 38.53
	MOTA	733	CG	LYS A	96	-9.189	18.871	49.651	1.00 68.97
40	MOTA	734	CD	LYS A	96	-8.691	17.549	50.221	1.00 80.86
40		735		LYS A					
	ATOM		CE		96	-9.596	17.011	51.330	1.00 92.53
	ATOM	736	NZ	LYS A	96	-9.049	15.833	52.029	1.00100.00
	MOTA	737	N	ASN A	97	-6.944	21.873	47.108	1.00 41.92
4.5	ATOM	738	CA	ASN A	97	-6.009	22.403	46.139	1.00 40.91
45	ATOM	739	С	ASN A	97	-6.606	23.348	45.088	1.00 42.64
	ATOM	740	0	ASN A	97	-5.963	23.681	44.068	1.00 38.69
	MOTA	741	CB	ASN A	97	-5.084	21.304	45.583	1.00 28.16
	MOTA	742	CG	ASN A	97	-4.327	20.568	46.677	1.00 52.21
	ATOM	743	OD1	ASN A	97	-3.089	20.627	46.744	1.00 55.30
50	ATOM	744		ASN A	97	-5.060	19.858	47.533	1.00 53.87
	ATOM	745	N	GLN A		-7.833	23.791	45.382	1.00 36.59
	ATOM	746	CA	GLN A	98				
						-8.557	24.718	44.536	1.00 38.44
	ATOM	747	C	GLN A	98	-8.288	26.181	44.951	1.00 43.30
55	ATOM	748	0	GLN A	98	-8.248	26.526	46.138	1.00 43.40
55	MOTA	749	СВ	GLN A	98	-10.064	24.395	44.575	1.00 42.26
	ATOM	750	CG	GLN A	98	-10.553	23.538	43.385	1.00 68.24
	ATOM	751	CD	GLN A	98	-12.008	23.778	43.010	1.00 95.57
	ATOM	752	OE1	GLN A	98	-12.890	22,935	43.278	1.00 86.92
	ATOM	753		GLN A	98	-12.271	24.935	42.393	1.00 95.48
60	ATOM	754	N	GLU A	99	-8.089	27.062	43.973	1.00 39.70
50	ATOM	755							
			CA	GLU A	99	-7.817	28.468	44.280	1.00 40.49
	ATOM	756	C	GLU A		-8.750	29.536	43.683	1.00 47.84
	ATOM	757	0	GLU A	99	-9.330	29.394	42.606	1.00 46.85
	MOTA	758	CB	GLU A	99	-6.361	28.866	43.951	1.00.40.24

	ATOM	759	CG	GLU A	99	-5.608	27.861	43.080	1.00 44.16
	ATOM	760	CD	GLU A	99	-4.120	28.119	42.990	1.00 65.64
	ATOM	761		GLU A	99	-3.636	29.062	42.376	1.00 73.95
	ATOM	762	OE2	GLU A	99	-3.395	27.210	43.614	1.00 55.99
5	ATOM	763	N	ILE A		-8.848	30.643	44.418	1.00 43.55
	ATOM	764	CA	ILE A		-9.595	31.800	44.005	1.00 43.46
	ATOM	765	С	ILE A		-8.701	32.992	44.238	1.00 53.31
	MOTA	766	0	ILE A		-7.725	32.927	45.004	1.00 55.16
	ATOM	767	CB	ILE A		-10.881	32.068	44.773	1.00 46.65
10	MOTA	768		ILE A		-10.762	31.640	46.227	1.00 50.76
	ATOM	769		ILE A		-12.111	31.486	44.106	1.00 46.76
	ATOM	770		ILE A		-9.959	32.620	47.087	1.00 64.36
	MOTA	771	N	VAL A		-9.060	34.076	43.580	1.00 48.20
	ATOM	772	CA	VAL A		-8.382	35.329	43.760	1.00 45.63
15	ATOM	773	С	VAL A		-9.383	36.351	44.295	1.00 48.59
	ATOM	774	0	VAL A		-10.331	36.722	43.623	1.00 51.29
	ATOM	775	CB	VAL A		-7.461	35.793	42.633	1.00 45.06
	ATOM	776		VAL A		-7.693	35.000	41.378	1.00 43.25
	ATOM	777		VAL A		-7.609	37,289	42.395	1.00 45.02
20	ATOM	778	Ŋ	ILE A		-9.182	36.738	45.546	1.00 41.15
	ATOM	779	CA	ILE A		-10.023	37.690	46.238	1.00 39.43
	ATOM	780	C	ILE A		-9.439	39.062	46.170	1.00 49.35
	ATOM	781	ō	ILE A		-8.331	39.274	46.659	1.00 53.80
	ATOM	782	СВ	ILE A		-10.097	37.319	47.694	1.00 39.19
25	ATOM	783		ILE A		-10.180	35.800	47.809	1.00 35.28
	ATOM	784		ILE A		-11.300	37.992	48.341	1.00 35.25
	ATOM	785		ILE A		-10.962	35.392	49.044	1.00 47.09
	ATOM	786	N	GLU A		~10.192	39.984	45.572	1.00 43.20
	ATOM	787	CA	GLU A		-9.748	41.362	45.433	1.00 39.88
30	ATOM	788	C	GLU A		-10.378	42.299	46.425	1.00 44.03
	ATOM	789	O	GLU A		-11.580	42.558	46.385	1.00 41.34
	ATOM	790	CB	GLU A		-9.950	41.930	44.047	1.00 39.11
	ATOM	791	CG	GLU A		-9.017	43.112	43.863	1.00 36.18
	ATOM	792	CD	GLU A		-9.150	43.666	42.485	1.00 61.93
35	ATOM	793		GLU A		-10.157	44.234	42.100	1.00 69.89
	ATOM	794		GLU A		-8.087	43.457	41.744	1.00 76.18
	ATOM	795	N	ILE A		-9.534	42.797	47.322	1.00 42.69
	MOTA	796	CA	ILE A		-9.969	43.718	48.346	1.00 40.72
	ATOM	797	C	ILE A	104	-9.522	45.167	48.099	1.00 46.21
40	ATOM	798	0	ILE A	104	-8.346	45.478	47.866	1.00 42.68
	ATOM	799	CB	ILE A	104	-9.578	43.283	49.754	1.00 41.75
	ATOM	800	CG1	ILE A	104	-10.006	41.855	50.032	1.00 39.85
	ATOM	801	CG2	ILE A	104	-10.225	44.222	50.768	1.00 41.53
_	ATOM	802	CD1	ILE A	104	-8.839	40.995	50.485	1.00 34.17
45	MOTA	803	N	SER A	105	-10.506	46.056	48.173	1.00 47.94
	ATOM	804	CA	SER A	105	-10.278	47.481	48.046	1.00 48.05
	ATOM	805	С	SER A	105	-10.184	47.977		
	MOTA	806	0	SER A		-11.134	47.879	50.263	1.00 39.69
	MOTA	807	CB	SER A	105	-11.399	48.180	47.290	1.00 53.77
50	MOTA	808	OG	SER A	105	-11.399	47.789	45.930	1.00 60.69
	ATOM	809	N	PHE A	106	-9.020	48.445	49.857	1.00 35.07
	ATOM	810	CA	PHE A	106	-8.844	48.890	51.223	1.00 34.98
	ATOM	811	С	PHE A	106	-8.177	50.238	51.262	1.00 39.26
	MOTA	812	0	PHE A	106	-7.607	50.730	50.265	1.00 34.24
55	ATOM	813	CB	PHE A	106	-8.015	47.864	52.060	1.00 36.05
	ATOM	814	CG	PHE A	106	-6.581	47.815	51.556	1.00 37.24
	ATOM	815	CD1	PHE A	106	-6.251	47.073	50.422	1.00 39.71
	ATOM	816	CD2	PHE A	106	-5.579	48.579	52.161	1.00 36.44
	ATOM	817		PHE A		-4.950	47.086	49.920	1.00 41.48
60	MOTA	818	CE2	PHE A	106	-4.273	48.609	51.672	1.00 38,19
	MOTA	819	CZ	PHE A	106	-3.961	47.856	50.540	1.00 37.91
	ATOM	820	N	GLU A		-8.284	50.794	52.453	1.00 40.64
	ATOM	821	CA	GLU A	107	-7.711	52.064	52.848	1.00 43.81
	ATOM	822	С	GLU A		~7.206	51.869	54.284	1.00 43.82
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	ATOM	823	0	GLU A	107	-7.933	51.303	55.121	1.00 38.38	
	ATOM	824	CB	GLU A		-8.737	53.234	52.753	1.00 46.93	
	ATOM	825	CG	GLU A	107	-8.107	54.637	52.467	1.00 67.21	
	ATOM	826	CD	GLU A	107	-9.086	55.715	52.042	1.00100.00	
5	ATOM	827	OE1	GLU A		-10.208	55.504	51.599	1.00100.00	
	MOTA	828		GLU A		-8.631	56.938	52.221	1.00 93.72	
	ATOM	829	N	THR A		-5.963	52.294	54.551	1.00 39.12	
	ATOM	830	CA	THR A		-5.345	52.175	55.873	1.00 39.69	
	ATOM	831	С	THR A		-5.564	53.427	56.724	1.00 49.82	
10	ATOM	832	0	THR A		-5.565	54.552	56.177	1.00 50.94	
	ATOM	833	СВ	THR A		-3.810	52.095	55.722	1.00 40.40	
	ATOM	834	OG1			-3.360	53.226	54.981	1.00 32.22	
	MOTA	835		THR A		-3.371	50.802	55.042	1.00 46.43	
	ATOM	836	N	SER A		-5.698	53.217	58.065	1.00 42.02	
15	ATOM	837	CA	SER A		-5.848	54.294	59.038	1.00 38.13	
	ATOM	838	C	SER A		-4.555	55.101	59.082	1.00 38.47	
	ATOM	839	o	SER A		-3.460	54.583	58.921	1.00 33.60	
	ATOM	840	СВ	SER A		-6.166	53.759	60.437	1.00 33.00	
	ATOM	841	OG	SER A		-6.205	54.812	61.404	1.00 47.63	
20	MOTA	842	N	PRO A		-4.655	56.392	59.308	1.00 47.03	•
20	ATOM	843	CA	PRO A		-3.419		59.393	1.00 41.04	
	ATOM	844	C	PRO A		-2.803	57.116 56.749	60.725	1.00 40.73	
	ATOM	845	0	PRO A					1.00 41.47	
	ATOM	846	СВ	PRO A		-1.676	57.080	61.009 59.298	1.00 42.30	
25	ATOM	847				-3.721	58.605			
23	ATOM	848	CG	PRO A		-5.224	58.719	59.132	1.00 48.77	
			CD	PRO A		-5.811	57.318	59.269	1.00 44.58	
	MOTA	849 850	N	LYS A		-3.578	56.017	61.518	1.00 36.35	
	ATOM		CA	LYS A		-3.167	55.535	62.819	1.00 36.74	
30	ATOM	851	C	LYS A		-2.669	54.083		1.00 40.19	
50	MOTA	852	0	LYS A		-2.733	53.319	63.678	1.00 40.53	
	ATOM	853	CB	LYS A		-4.341	55.606	63.807	1.00 41.91	
	ATOM	854	CG	LYS A		-4.362	56.838	64.708	1.00 71.21	
	ATOM	855	CD	LYS A		-5.421	57.854	64.309	1.00 97.95	
35	MOTA	856	CE	LYS A		-6.839	57.394	64.611	1.00100.00	
33	ATOM	857	NZ	LYS A		-7.853	58.120	63.819	1.00100.00	
	ATOM	858	N	SER A		-2.184	53.670	61.550	1.00 36.84	
	MOTA	859	CA	SER A		-1.714	52.296	61.358	1.00 34.35	
	ATOM	860	C	SER A		-0.518	51.917	62.225	1.00 35.57	
40	ATOM	861	0	SER A		0.533	52.548	62.166	1.00 32.49	
40	ATOM	862	CB	SER A		-1.449	51.995	59.883	1.00 35.16	
	MOTA	863	OG	SER A		-0.682	50.814	59.762	1.00 31.94	
	ATOM	864	N	SER A		-0.666	50.872	63.033	1.00 31.84	
	ATOM	865	CA	SER A		0.445	50.460	63.866	1.00 29.27	
45	ATOM	866	C	SER A		1.601	49.927	63.040	1.00 33.37	
45	ATOM	867	0	SER A		2.715	49.792	63.497	1.00 32.95	
	ATOM	868	CB	SER A		0.052	49.498	64.945	1.00 29.45	
	ATOM	869	OG	SER A		0.045	48.169	64.462	1.00 34.27	
	MOTA	870	N	ALA A		1.357	49.628	61.797	1.00 33.69	
50	ATOM	871	CA	ALA A		2.437	49.134	60.981	1.00 34.05	
50	MOTA	872	С	ALA A		3.239	50.287	60.388	1.00 37.83	
	ATOM	873	0	ALA A		4.411	50.149	60.033	1.00 37.72	
	ATOM	874	СВ	ALA A		1.845	48.292	59.852	1.00 34.51	
	ATOM	875	N	LEU A		2.580	51.432	60.259	1.00 32.19	
55	ATOM	876	CA	LEU A		3.201	52.595	59.662	1.00 30.48	
55	MOTA	877	С	LEU A		3.509	53.745	60.565	1.00 35.32	
	MOTA	878	0	LEU A		2.902	54.012	61.604	1.00 35.25	
	MOTA	879	CB	LEU A		2.358	53.156	58.507	1.00 30.53	
	MOTA	880	CG	LEU A	115	1.787	52.064	57.602	1.00 35.51	
	MOTA	881	CD1	LEU A	115	0.812	52.710	56.637	1.00 35.12	
60	MOTA	882	CD2	LEU A	115	2.903	51.387	56.821	1.00 33.88	
	MOTA	883	N	GLN A		4.490	54.457	60.096	1.00 34.00	
	ATOM	884	CA	GLN A		4.926	55.656	60.737	1.00 32.52	
	ATOM	885	C	GLN A		5.066	56.689	59.645	1.00 31.34	
	ATOM	886	ō	GLN A		5.880	56.552	58.729	1.00 28.29	
			-			5.000			3 <b></b>	

	MOTA	887	СВ	GLN A 116	6.232	55.540	61.496	1.00 32.66
	ATOM	888	CG	GLN A 116	6.419	56.813	62.322	1.00 41.25
	MOTA	889	CD	GLN A 116	7.777	56.897	62.952	1.00 50.08
_	ATOM	890	OE1	GLN A 116	8.515	55.905	63.017	1.00 55.36
5	ATOM	891	NE2	GLN A 116	8.090	58.081	63.438	1.00 38.23
	MOTA	892	N	TRP A 117	4.210	57.680	59.748	1.00 26.66
	ATOM	893	CA	TRP A 117	4.148	58.785	58.827	1.00 26.04
	ATOM	894	С	TRP A 117	4.912	59.978	59.375	1.00 34.56
10	ATOM	895	0	TRP A 117	4.467	60.589	60.364	1.00 36.83
10	MOTA	896	СВ	TRP A 117	2.669	59.188	58.630	1.00 23.15
	ATOM	897	CG	TRP A 117	1.826	58.209	57.863	1.00 23.02
	MOTA	898		TRP A 117	1.052	57.224	58.397	1.00 26.39
	MOTA	899		TRP A 117	1.640	58.135	56.433	1.00 21.06
15	ATOM	900		TRP A 117	0.395	56.534	57.393 56.184	1.00 26.40 1.00 27.99
13	ATOM ATOM	901 902	CE2 CE3	TRP A 117 TRP A 117	0.735 2.121	57.087 58.872	55.361	1.00 27.99
	ATOM	903		TRP A 117	0.352	56.753	54.886	1.00 28.21
	ATOM	904		TRP A 117	1.750	58.560	54.079	1.00 22.43
	ATOM	905	CH2	TRP A 117	0.872	57.512	53.847	1.00 24.28
20	ATOM	906	N	LEU A 118	6.043	60.340	58.756	1.00 31.44
	ATOM	907	CA	LEU A 118	6.745	61.506	59.276	1.00 36.67
	ATOM	908	C	LEU A 118	6.584	62.774	58.432	1.00 46.93
	ATOM	909	ō	LEU A 118	6.434	62.705	57.210	1.00 51.17
	ATOM	910	CB	LEU A 118	8.250	61.327	59.577	1.00 38.83
25	ATOM	911	CG	LEU A 118	8.881	59.939	59.398	1.00 44.33
	MOTA	912	CD1	LEU A 118	10.392	60.065	59.569	1.00 42.12
	ATOM	913	CD2	LEU A 118	8.351	58.950	60.426	1.00 49.99
	MOTA	914	N	THR A 119	6.524	63.939	59.109	1.00 41.34
20	MOTA	915	CA	THR A 119	6.449	65.260	58.468	1.00 38.89
30	MOTA	916	С	THR A 119	7.847	65.633	58.034	1.00 40.14
	MOTA	917	0	THR A 119	8.841	65.165	58.605	1.00 44.03
	ATOM	918	CB	THR A 119	5.932	66.300	59.467	1.00 42.63
	ATOM	919	OG1	THR A 119	6.994	66.605	60.362	1.00 50.01
35	ATOM	920		THR A 119	4.769	65.668	60.224	1.00 36.78
33	ATOM ATOM	921 922	N	PRO A 120 PRO A 120	7.963 9.275	66.440 66.781	57.020 56.517	1.00 33.41 1.00 33.18
	ATOM	923	CA C	PRO A 120	10.260	67.209	57.599	1.00 33.18
	MOTA	924	o	PRO A 120	11.433	66.829	57.566	1.00 34.42
	ATOM	925	CB	PRO A 120	9.068	67.840	55.416	1.00 33.54
40	ATOM	926	CG	PRO A 120	7.582	67.823	55.097	1.00 34.86
	ATOM	927	CD	PRO A 120	6.891	67.180	56.300	1.00 30.86
	ATOM	928	N	GLU A 121	9.751	67.982	58.563	1.00 38.03
	ATOM	929	CA	GLU A 121	10.534	68.474	59.681	1.00 41.03
	ATOM	930	С	GLU A 121	11.212	67.361	60.411	1.00 50.88
45	MOTA	931	0	GLU A 121	12.279	67.548	60.977	1.00 54.97
	ATOM	932	CB	GLU A 121	9.742	69.325	60.699	1.00 43.28
	MOTA	933	CG	GLU A 121	8.220	69.071	60.702	1.00 64.72
	ATOM	934	CD	GLU A 121	7.398	70.118	59.988	1.00 86.07
50	MOTA	935		GLU A 121	7.007	71.131	60.538	1.00100.00
50	ATOM ATOM	936 937	OE2 N		7.108	69.803 66.202	58.739 60.394	1.00 59.72 1.00 44.09
	ATOM	938	CA	GLN A 122 GLN A 122	10.569 11.083	65.019	61.041	1.00 40.20
	MOTA	939	C	GLN A 122	12.170	64.373	60.232	1.00 47.73
	MOTA	940	Õ	GLN A 122	12.711	63.343	60.643	1.00 53.29
55	ATOM	941	СВ	GLN A 122	9.965	63.992	61.224	1.00 39.31
	ATOM	942	CG	GLN A 122	9.057	64.441	62.361	1.00 30.23
	ATOM	943	CD	GLN A 122	7.756	63.691	62.438	1.00 38.25
	MOTA	944		GLN A 122	6.899	63.804	61.548	1.00 53.34
	MOTA	945		GLN A 122	7.592	62.938	63.521	1.00 18.98
60	MOTA	946	N	THR A 123	12.486	64.942	59.074	1.00 38.99
	MOTA	947	CA	THR A 123	13.490	64.319	58.229	1.00 36.00
	ATOM	948	С	THR A 123	14.755	65.034	58.264	1.00 35.30
	MOTA	949	0	THR A 123	14.842	66.074	58.875	1.00 34.95
	MOTA	950	CB	THR A 123	13.067	64.145	56.759	1.00 38.25

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		ATOM	951	OG1	THR A	123	13.144	65.374	56.046	1.00 43.75
		ATOM	952	CG2	THR A	123	11.643	63.616	56.725	1.00 40.72
		MOTA	953	N	SER A		15.699	64.447	57.557	1.00 32.18
		ATOM	954	CA	SER A	124	17.025	64.996	57.442	1.00 33.71
	5	MOTA	955	С	SER A	124	17.007	66.216	56.553	1.00 39.04
		ATOM	956	0	SER A	124	17.537	67.268	56.883	1.00 39.07
		ATOM	957	CB	SER A	124	18.023	63.992	56.859	1.00 37.73
		ATOM	958	OG	SER A	124	18.359	62.978	57.796	1.00 36.28
		ATOM	959	N	GLY A	125	16.389	66.025	55.414	1.00 38.59
	10	ATOM	960	CA	GLY A	125	16.280	67.034	54.396	1.00 39.90
		MOTA	961	С	GLY A	125	15.290	68.094	54.749	1.00 46.83
		ATOM	962	0	GLY A	125	15.347	69.171	54.172	1.00 49.78
		ATOM	963	N	LYS A	126	14.391	67.788	55.678	1.00 41.09
		MOTA	964	CA	LYS A		13.396	68.761	56.126	1.00 41.26
	15	ATOM	965	С	LYS A	126	12.498	69.307	55.020	1.00 47.42
		ATOM	966	0	LYS A	126	11.617	70.141	55.279	1.00 48.94
		ATOM	967	CB	LYS A	126	14.024	69.936	56.894	1.00 41.98
		ATOM	968	CG	LYS A	126	15.094	69.555	57.913	1.00 45.84
	20	MOTA	969	CD	LYS A		14.535	68.838	59.135	1.00 58.74
	20	MOTA	970	CE	LYS A		15.612	68.500	60.151	1.00 72.12
		ATOM	971	NZ	LYS A		15.395	67.218	60.839	1.00 88.38
		MOTA	972	N	GLU A		12.722	68.858	53.792	1.00 41.82
		MOTA	973	CA	GLU A		11.921	69.344	52.708	1.00 41.98
	25	MOTA	974	С	GLU A		10.899	68.334	52.239	1.00 45.14
	25	MOTA	975	0	GLU A		9.994	68.683	51.496	1.00 46.95
		ATOM	976	CB	GLU A		12.727	70.015	51.543	1.00 44.39
		ATOM	977	CG	GLU A		13.198	71.499	51.820	1.00 57.99
		ATOM	978	CD	GLU A		12.331	72.659	51.301	1.00100.00
	30	ATOM	979		GLU A		11.652	72.611	50.286	1.00100.00
	30	ATOM	980		GLU A		12.387	73.758	52.054	1.00100.00
		ATOM	981	N	HIS A		11.027	67.077	52.653	1.00 39.18
		ATOM	982	CA	HIS A		10.068	66.072	52.210	1.00 39.43
		ATOM	983 98 <b>4</b>	С 0	HIS A		9.636	65.148	53.316 54.281	1.00 42.09 1.00 45.34
	35	MOTA MOTA	985	СВ	HIS A		10.366 10.628	64.955 65.194	51.097	1.00 43.34
	33	ATOM	986	CG	HIS A		10.028	65.936	49.854	1.00 47.24
		ATOM	987		HIS A		9.943	66.423	49.029	1.00 47.24
		ATOM	988		HIS A		12.159	66.262	49.322	1.00 51.13
		ATOM	989		HIS A		10.559	67.031	48.026	1.00 49.97
	40	ATOM	990		HIS A		11.888	66.953	48.166	1.00 50.87
		ATOM	991	N	PRO A		8.447	64.572	53.171	1.00 32.55
		ATOM	992	CA	PRO A		7.968	63.650	54.163	1.00 31.15
		ATOM	993	С	PRO A		8.636	62.328	53.900	1.00 34.90
		ATOM	994	0	PRO A		9.481	62.214	53.021	1.00 35.46
	45	ATOM	995	CB	PRO A			63.490		1.00 31.94
		ATOM	996	CG	PRO A		6.133	64.104	52.649	1.00 36.83
		ATOM	997	CD	PRO A	129	7.384	64.850	52.185	1.00 32.71
		ATOM	998	N	TYR A	130	8.248	61.342	54.659	1.00 29.47
• • • • ::		ATOM	999	CA	TYR A	130	8.826	60.025	54.548	1.00 29.35
	50	ATOM	1000	С	TYR A	130	7.856	59.046	55.156	1.00 31.83
:		MOTA	1001	0	TYR A	130	7.138	59.375	56,093	1.00 29.84
•		ATOM	1002	CB	TYR A	130	10.098	60.029	55.433	1.00 30.54
•		ATOM	1003	CG	TYR A		11.083	58.886	55.285	1.00 29.76
		ATOM	1004		TYR A		10.845	57.630	55.845	1.00 26.16
•	55	ATOM	1005		TYR A		12.290	59.110	54.619	1.00 30.28
:		MOTA	1006		TYR A		11.795	56.621	55.721	1.00 17.87
•		ATOM	1007		TYR A		13.253	58.114	54.479	1.00 27.75
:		ATOM	1008	CZ	TYR A		12.983	56.866	55.031	1.00 25.76
	60	ATOM	1009	ОН	TYR A		13.899	55.864	54.894	1.00 40.52
·	60	ATOM	1010	N	LEU A		7.832	57.842	54.647	1.00 31.12
		MOTA	1011	CA	LEU A		6.994	56.868	55.303	1.00 30.43
• • • •		ATOM	1012	С	LEU A		7.691	55.568	55.289	1.00 33.91
		ATOM	1013	0	LEU A		8.398	55.257	54.397	1.00 33.68
• "		ATOM	1014	CB	LEU A	131	5.679	56.761	54.530	1.00 26.16

	ATOM	1015	CG	LEU A 131	5.065	55.367	54.600	1.00 21.68
	ATOM	1016		LEU A 131	4.163	55.206	55.797	1.00 17.56
	MOTA	1017		LEU A 131	4.222	55.008	53.380	1.00 13.86
	ATOM	1017	N	PHE A 132	7.533	54.828	56.348	1.00 29.24
5								1.00 23.24
,	ATOM	1019	CA	PHE A 132	8.129	53.527	56.323	
	ATOM	1020	C	PHE A 132	7.299	52.519	57.157	1.00 41.08
	ATOM	1021	0	PHE A 132	6.344	52.889	57.837	1.00 46.05
	MOTA	1022	CB	PHE A 132	9.621	53.670	56.791	1.00 36.40
• •	MOTA	1023	CG	PHE A 132	9.763	53.895	58,256	1.00 38.11
10	ATOM	1024		PHE A 132	9.601	52.821	59.053	1.00 37.18
	ATOM	1025	CD2	PHE A 132	10.123	55.158	58.803	1.00 43.89
	ATOM	1026	CEl	PHE A 132	9.771	52.936	60.422	1.00 41.04
	ATOM	1027	CE2	PHE A 132	10.289	55.258	60.174	1.00 47.72
	ATOM	1028	CZ	PHE A 132	10.131	54.143	60.986	1.00 44.34
15	ATOM	1029	N	SER A 133	7.612	51.221	57.002	1.00 33.47
	ATOM	1030	CA	SER A 133	6.744	50.228	57.629	1.00 29.86
	ATOM	1031	С	SER A 133	7.499	49.221	58.504	1.00 31.53
	ATOM	1032	0	SER A 133	8.724	49.146	58.531	1.00 33.16
	ATOM	1033	CB	SER A 133	5.942	49.481	56.535	1.00 33.19
20	ATOM	1034	OG	SER A 133	6.757	48.480	55.926	1.00 50.66
	ATOM	1035	N	GLN A 134	6.703	48.466	59.294	1.00 24.61
	ATOM	1036	CA	GLN A 134	7.283	47.422	60.134	1.00 22.55
	ATOM	1037	C	GLN A 134	6.268	46.321	60.398	1.00 27.28
	ATOM	1038	ō	GLN A 134	5.161	46.566	60.809	1.00 25.09
25	ATOM	1039	СВ	GLN A 134	7.711	48.041	61.464	1.00 23.29
23	ATOM	1040	CG	GLN A 134	8.218	46.987	62.454	1.00 25.96
	ATOM	1041	CD	GLN A 134	9.423	46.290	61.872	1.00 25.65
	ATOM	1041		GLN A 134	10.296	46.236	61.263	1.00 25.05
	ATOM	1042	NE2		9.445	44.965	62.095	1.00 20.30
30	ATOM	1043	N	CYS A 135	6.435	45.124	59.820	1.00 21.75
50			CA	CYS A 135			59.755	1.00 23.00
	MOTA	1045			5.291	44.220	60.662	1.00 32.50
	ATOM	1046	C	CYS A 135	5.442	43.006	60.739	1.00 40.94
	ATOM	1047	0	CYS A 135	4.597	42.144		
35	ATOM	1048	CB	CYS A 135	5.098	43.794	58.320	1.00 35.40
33	ATOM	1049	SG	CYS A 135	3.976	44.922	57.445	1.00 41.22
	ATOM	1050	N	GLN A 136	6.582	42.949	61.345	1.00 37.37
	ATOM	1051	CA	GLN A 136	6.715	41.982	62.417	1.00 35.71
	ATOM	1052	С	GLN A 136	6.589	42.645	63.797	1.00 31.90
40	MOTA	1053	0	GLN A 136	6.878	43.803	63.981	1.00 30.54
40	ATOM	1054	CB	GLN A 136	8.077	41.311	62.295	1.00 37.24
	ATOM	1055	CG	GLN A 136	8.076	39.878	62.847	1.00 29.70
	ATOM	1056	CD	GLN A 136	9.483	39.511	63.235	1.00 36.48
	ATOM	1057		GLN A 136	10.366	40.328	63.356	1.00 24.49
45	ATOM	1058	NE2	GLN A 136	9.665	38.201	63.443	1.00 22.19
45	ATOM	1059	N	ALA A 137	5.850	41.899	64.648	1.00 28.56
	ATOM	1060	CA	ALA A 137	5.235	40.581	64.351	1.00 28.89
	MOTA	1061	С	ALA A 137	3.860	40.503	63.630	1.00 31.83
	ATOM	1062	0	ALA A 137	3.679	39.688	62.738	1.00 29.67
<b>60</b>	MOTA	1063	CB	ALA A 137	5.091	39.742	65.625	1.00 28.91
50	ATOM	1064	N	ILE A 138	2.863	41.285	64.070	1.00 27.07
	ATOM	1065	CA	ILE A 138	1.553	41.176	63.445	1.00 23.90
	MOTA	1066	С	ILE A 138	0.960	42.492	63.053	1.00 28.69
	MOTA	1067	0	ILE A 138	-0.144	42.822	63.426	1.00 31.92
	ATOM	1068	CB	ILE A 138	0.641	40.357	64.339	1.00 25.41
55	ATOM	1069	CG1	ILE A 138	0.871	40.811	65.801	1.00 27.32
	ATOM	1070	CG2	ILE A 138	1.162	38.938	64.191	1.00 16.34
	ATOM	1071	CD1	ILE A 138	-0.275	40.615	66.826	1.00 20.22
	MOTA	1072	N	HIS A 139	1.718	43.223	62.265	1.00 24.05
	ATOM	1073	CA	HIS A 139	1.322	44.511	61.824	1.00 24.05
60	ATOM	1074	c	HIS A 139	0.982	44.579	60.351	1.00 34.40
	ATOM	1075	ō	HIS A 139	0.539	45.625	59.888	1.00 35.89
	ATOM	1076	СВ	HIS A 139	2.439	45.519	62.173	1.00 24.63
	ATOM	1077	CG	HIS A 139	2.689	45.619	63.657	1.00 27.97
	ATOM	1078		HIS A 139	1.679	45.970	64.571	1.00 27.75
							<del>-</del>	

	ATOM	1079	CD2	HIS A	139	3.835	45.437	64.356	1.00 28.42
	ATOM	1080	CE1	HIS A	139	2.222	45.983	65.770	1.00 26.19
	MOTA	1081	NE2	HIS A	139	3.517	45.668	65.671	1.00 27.42
_	ATOM	1082	N	CYS A	140	1.181	43.490	59.598	1.00 30.28
5	ATOM	1083	CA	CYS A	140	0.832	43.517	58.181	1.00 28.08
	ATOM	1084	С	CYS A	140	-0.671	43.765	58.011	1.00 28.98
	MOTA	1085	0	CYS A	140	-1.111	44.449	57.066	1.00 30.00
	ATOM	1086	CB	CYS A	140	1.181	42.213	57.447	1.00 28.82
10	ATOM	1087	SG	CYS A		1.330	42.483	55.661	1.00 34.37
10	MOTA	1088	N	ARG A	141	-1.440	43.168	58.949	1.00 20.78
	MOTA	1089	CA	ARG A	141	-2.884	43.252	58.996	1.00 20.33
	MOTA	1090	С	ARG A		-3.286	44.684	59.003	1.00 32.37
	MOTA	1091	0	ARG A		-4.355	45.032	58.510	1.00 35.81
16	ATOM	1092	СВ	ARG A		-3.557	42.498	60.156	1.00 14.60
15	ATOM	1093	CG	ARG A		-3.081	42.891	61.568	1.00 20.94
	MOTA	1094	CD	ARG A		-3.576	41.978	62.715	1.00 19.99
	MOTA	1095	NE	ARG A		-2.911	40.690	62.786	1.00 18.24
	MOTA	1096	CZ	ARG A		-3.140	39.707	63.648	1.00 18.77
20	ATOM	1097		ARG A		-4.029	39.739	64.634	1.00 20.76
20	MOTA	1098		ARG A		-2.415	38.640	63.508	1.00 24.20
	ATOM	1099	N	ALA A		-2.408	45.511	59.580	1.00 28.35
	ATOM	1100	CA	ALA A		-2.668	46.940	59.657	1.00 27.60
	ATOM	1101	С	ALA A		-2.369	47.652	58.345	1.00 34.33
25	ATOM	1102	0	ALA A		-2.620	48.835	58.203	1.00 34.36
23	ATOM	1103	CB	ALA A		-1.994	47.616	60.843	1.00 27.67
	ATOM	1104	N	ILE A		-1.824	46.922	57.382	1.00 32.39
	ATOM	1105	CA	ILE A		-1.537	47.499	56.099	1.00 30.38
	ATOM	1106	С	ILE A		-2.520	46.994	55.067 54.152	1.00 37.79 1.00 42.65
30	ATOM ATOM	1107	O	ILE A		-2.885	47.709 47.228	55.613	1.00 42.05
50	ATOM	1108 1109	CB	ILE A		-0.142 0.827	48.062	56.414	1.00 32.00
	ATOM	1110		ILE A		-0.074	47.654	54.143	1.00 34.02
	ATOM	1111		ILE A		2.258	47.774	55.988	1.00 42.10
	ATOM	1112	N	LEU A		-2.939	45.749	55.218	1.00 32.50
35	ATOM	1113	CA	LEU A		-3.873	45.142	54.291	1.00 32.36
55	ATOM	1114	C	LEU A		-4.435	43.838	54.849	1.00 40.36
	ATOM	1115	ō	LEU A		-3.959	43.278	55.852	1.00 33.27
	ATOM	1116	СВ	LEU A		-3.250	44.936	52.894	1.00 31.58
	ATOM	1117	CG	LEU A		-1.923	44.170	52.917	1.00 33.31
40	ATOM	1118		LEU A		-2.147	42.770	52.352	1.00 32.07
	ATOM	1119		LEU A		-0.836	44.897	52.110	1.00 28.67
	ATOM	1120	N	PRO A		-5.490	43.347	54.213	1.00 40.02
	ATOM	1121	CA	PRO A	145	-6.080	42.129	54.715	1.00 37.86
	MOTA	1122	С	PRO A	145	-5.264	40.941	54.286	1.00 37.87
45	ATOM	1123	0	PRO A	145	-4.819	40.831	53.144	1.00 35.27
	ATOM	1124	CB	PRO A	145	-7.530	42.080	54.220	1.00 38.81
	ATOM	1125	CG	PRO A		-7.778	43.393	53.492	1.00 41.34
	MOTA	1126	CD	PRO A	145	-6.432	44.093	53.341	1.00 36.69
	MOTA	1127	N	CYS A	146	-5.041	40.056	55.233	1.00 36.18
50	MOTA	1128	CA	CYS A	146	-4.250	38.882	54.958	1.00 35.60
	MOTA	1129	С	CYS A	146	-4.358	37.859	56.069	1.00 33.04
	MOTA	1130	0	CYS A	146	-5.067	38.062	57.050	1.00 30.78
	ATOM	1131	CB	CYS A	146	-2.761	39.28 <b>7</b>	54.813	1.00 36.08
	ATOM	1132	SG	CYS A	146	-2.087	40.108	56.302	1.00 39.43
55	ATOM	1133	N	GLN A		-3.637	36.755	55.883	1.00 29.33
	MOTA	1134	CA	GLN A		-3.517	35.703	56.875	1.00 29.71
	ATOM	1135	С	GLN A		-2.254	36.131	57.628	1.00 38.75
	MOTA	1136	0	GLN A		-1.141	35.926	57.135	1.00 40.79
<b>.</b>	ATOM	1137	CB	GLN A		-3.322	34.352	56.206	1.00 28.99
60	MOTA	1138	CG	GLN A		-4.672	33.707	55.894	1.00 25.73
	MOTA	1139	CD	GLN A		-4.562	32.532	54.960	1.00 39.92
	ATOM	1140		GLN A		-4.217	32.668	53.775	1.00 43.89
	ATOM	1141		GLN A		-4.828	31.368	55.499	1.00 26.36
	ATOM	1142	N	ASP A	148	-2.425	36.834	58.765	1.00 32.68

		ATOM	1143	CA	ACD	7	148	-1.287	37.362	59.474	1 00	22 50
		ATOM	1144	C			148		36.377	60.371		33.50
		ATOM	1145	ō			148		36.563	61.584		33.13
		ATOM	1146	СВ			148		38.642	60.253		31.30
	5	ATOM	1147	CG			148		39.666	60.332		45.10
	_	ATOM	1148		ASP				39.540	59.836		47.89
		ATOM	1149		ASP				40.737	60.952		48.63
		ATOM	1150	N			149		35.345	59.742		29.15
		ATOM	1151	CA			149		34.251	60.422		28.25
	10	ATOM	1152	C			149		33.831	59.625		34.92
		ATOM	1153	Ö			149		33.764	58.410		34.47
		ATOM	1154	СВ	THR				33.087	60.674		24.79
		ATOM	1155		THR				32.059	61.352		37.15
		ATOM	1156		THR				32.527	59.345		26.56
	15	ATOM	1157	N			150		33.575	60.323		34.69
		ATOM	1158	CA			150		33.217	59.659		31.06
		ATOM	1159	С			150		31.813	59.131		36.66
		ATOM	1160	0			150		31.356	58.450		36.37
		ATOM	1161	CB			150		33.327	60.712		31.18
	20	ATOM	1162	CG	PRO				33.471	62.077		36.95
		ATOM	1163	CD	PRO	Α	150	3.078	33,589	61.823		34.62
		ATOM	1164	N	SER	Α	151	2.992	31.150	59.452	1.00	31.62
		ATOM	1165	CA	SER	Α	151	2.778	29.791	59.029		27.35
		MOTA	1166	С	SER	Α	151	2.357	29.738	57.564		32.97
	25	MOTA	1167	0	SER	Α	151	2.344	28.703	56.928	1.00	34.25
		MOTA	1168	CB	SER	A	151	1.714	29.203	59.905	1.00	25.95
		ATOM	1169	OG	SER	A	151	0.483	29.685	59.439	1.00	49.35
		ATOM	1170	N	VAL	Α	152	1.997	30.887	57.024	1.00	34.36
	20	ATOM	1171	CA	LAV	A	152	1.595	31.015	55.623	1.00	33.74
	30	MOTA	1172	С	VAL			2.705	31.764	54.847	1.00	37.45
		ATOM	1173	0	VAL			3.295	32.761	55.313	1.00	37.63
		ATOM	1174	CB	VAL				31.697	55.427		32.61
		ATOM	1175		VAL			-0.184	31.767	53.963		31.50
	25	ATOM	1176		VAL			-0.915	30.975	56.149		31.29
	35	MOTA	1177	N	LYS			2.999	31.289	53.654		26.98
		MOTA	1178	CA	LYS			4.002	31.927	52.866		25.81
		MOTA	1179	C	LYS				32.141	51.473		33.94
		MOTA MOTA	1180 1181	O CB	LYS LYS				31.251	50.936		32.91
	40	MOTA	1182	CG	LYS				31.091 31.760	52.841 53.583		24.70
	70	MOTA	1183	CD	LYS				30.893	53.616		34.68
		MOTA	1184	CE	LYS				30.506	55.015		39.37 29.09
		ATOM	1185	NZ	LYS				30.152	55.112		26.03
		ATOM	1186	N	LEU			3.732	33.321	50.896		32.13
	45	MOTA	1187	CA	LEU				33.639	49.544		30.67
		ATOM	1188	c	LEU			4.279	34.475	48.789		40.67
		MOTA		0	LEU					49.344		
		ATOM	1190	CB	LEU				34.432	49.515		30.10
		ATOM	1191	CG	LEU				35.793	50.207		35.20
• •	50	MOTA	1192	CD1	LEU	Α	154		36.716	49.690	1.00	37.21
:		MOTA	1193	CD2	LEU	Α	154		35,608	51.715	1.00	33.07
		MOTA	1194	N	THR	Α	155	3.963	34.610	47.499	1.00	37.82
: .:		ATOM	1195	CA	THR	Α	155	4.728	35.449	46.596	1.00	38.44
- :		ATOM	1196	C	THR	Α	155	3.934	36.730	46.389	1.00	41.52
	55	MOTA	1197	0	THR	Α	155	2.738	36.775	46.674	1.00	43.95
;·.		MOTA	1198	CB	THR			5.041	34.814	45.230	1.00	36.99
:		ATOM	1199		THR			3.886	34.281	44.584	1.00	32.59
		ATOM	1200		THR			6.133	33.790	45.404		18.24
	60	ATOM	1201	N	TYR			4.563	37.768	45.892		33.87
:	60	ATOM	1202	CA	TYR			3.835	39.003	45.683		32.49
		ATOM	1203	C	TYR			4.509	39.922	44.717		37.91
: :		ATOM	1204	0	TYR			5.725	39.940	44.562		39.04
		ATOM	1205	CB	TYR			3.534	39.795	46.983		31.16
- : :		ATOM	1206	CG	TYR	Α	156	4.642	40.731	47.471	1.00	28.94

		ATOM	1207	CD1	TYR A	156	4.817	42.021	46.969	1.00 30.33
		ATOM	1208		TYR A		5.525	40.303	48.465	1.00 30.43
		ATOM	1209		TYR A	_	5.829	42.853	47.459	1.00 36.89
		ATOM	1210		TYR A		6.553	41.104	48.960	1.00 31.47
	5	ATOM	1211	CZ	TYR A		6.690	42.396	48.462	1.00 43.34
		ATOM	1212	ОН	TYR A		7.701	43.180	48.956	1.00 36.86
		ATOM	1213	N	THR A	157	3.657	40.689	44.101	1.00 36.75
		MOTA	1214	CA	THR A	157	4.036	41.691	43.171	1.00 38.49
	10	ATOM	1215	С	THR A		3.346	42.942	43.611	1.00 42.61
	10	ATOM	1216	0	THR A		2.228	42.913	44.143	1.00 38.45
		ATOM	1217	CB	THR A		3.631	41.316	41.751	1.00 39.73
		MOTA	1218		THR A		2.380	40.655	41.803	1.00 55.71
		ATOM	1219		THR A		4.680	40.370	41.212	1.00 26.71
	15	ATOM	1220	N	ALA A		4.037	44.025	43.404	1.00 41.36
	15	ATOM	1221	CA	ALA A		3.488	45.273	43.789	1.00 41.08
		ATOM	1222	С	ALA A		3.869	46.401	42.839	1.00 50.77
		MOTA	1223	0	ALA A		4.919	46.390	42.179	1.00 53.47
		ATOM ATOM	1224 1225	CB N	ALA A GLU A		3.910 2.974	45.570 47.376	45.212 42.788	1.00 43.90
	20	ATOM	1225	CA	GLU A		3.107	48.604	42.788	1.00 43.30
	20	MOTA	1227	C	GLU A		2.451	49.705	42.843	1.00 42.27
		ATOM	1228	õ	GLU A		1.257	49.630	43.227	1.00 41.00
,		ATOM	1229	СВ	GLU A		2.641	48.521	40.571	1.00 43.72
		ATOM	1230	CG	GLU A		1.943	47.197	40.255	1.00 62.90
	25	MOTA	1231	CD	GLU A		1.502	47.156	38.835	1.00 91.28
		MOTA	1232	OE1	GLU A		2.202	46.696	37.955	1.00 77.84
		ATOM	1233	OE2			0.322	47.707	38.644	1.00100.00
		ATOM	1234	N	VAL A		3.263	50.686	43.197	1.00 34.67
	•	ATOM	1235	CA	VAL A		2.738	51.717	44.044	1.00 36.57
	30	MOTA	1236	С	VAL A		3.024	53.091	43.533	1.00 43.02
		ATOM	1237	0	VAL A		4.121	53.380	43.050	1.00 42.71
		ATOM	1238	CB	VAL A		3.180	51.530	45.500	1.00 40.73
		ATOM	1239		VAL A		3.988	50.239	45.644	1.00 38.56
	35	ATOM	1240		VAL A		4.006	52.728	45.963	1.00 40.46
	55	ATOM ATOM	1241 1242	n ca	SER A		2.002	53.922 55.292	43.653 43.185	1.00 41.79 1.00 42.07
		ATOM	1243	C	SER A		2.532	56.204	44.270	1.00 42.07
		ATOM	1244	ō	SER A		2.047	56.121	45.403	1.00 43.60
		ATOM	1245	СВ	SER A		0.751	55.801	42.635	1.00 43.32
	40	ATOM	1246	OG	SER A		0.971	56.850	41.726	1.00 49.40
		ATOM	1247	N	VAL A		3.447	57.080	43.896	1.00 36.49
		ATOM	1248	CA	VAL A	162	3.979	58.019	44.838	1.00 34.99
		MOTA	1249	С	VAL A	162	4.273	59.319	44.148	1.00 42.57
		ATOM	1250	0	VAL A	162	4.470	59.354	42.932	1.00 44.41
	45	ATOM	1251	CB	VAL A	162	5.300	57.498	45.402	1.00 35.97
		ATOM	1252		VAL A		5.084	56.219	46.188	1.00 36.12
		MOTA	1253	CG2	VAL A		6.222	57.194	44.239	1.00 35.42
-		ATOM	1254	N	PRO A		4.332	60.377	44.942	1.00 32.95
• • •	50	MOTA	1255	CA	PRO A		4.664	61.662	44.400	1.00 31.07
:	50	MOTA	1256	C	PRO A		5.966	61.496	43.652	1.00 39.67
:		MOTA	1257	0	PRO A		6.919	60.892	44.142	1.00 42.78
- :		MOTA MOTA	1258 1259	CB	PRO A		4.780 3.946	62.562	45.618 46.714	1.00 31.62 1.00 33.93
		ATOM	1260	CG CD	PRO A		3.652	61.893 60.480	46.714	1.00 33.93
·.:	55	ATOM	1261	N	LYS A		5.962	61.978	42.436	1.00 28.53
•		MOTA	1262	CA	LYS A		7.086	61.860	42.436	1.00 38.32
•••		ATOM	1263	C	LYS A		8.451	62.222	42.088	1.00 33.37
٠.		ATOM	1264	ō	LYS A		9.453	61.708	41.593	1.00 44.47
		ATOM	1265	СВ	LYS A		6.828	62.479	40.177	1.00 44.67
•••	60	MOTA	1266	CG	LYS A		6.004	63.758	40.257	1.00 78.05
		ATOM	1267	CD	LYS A		6.651	64.918	39.497	1.00100.00
: :		ATOM	1268	CE	LYS A		6.016	66.289	39.772	1.00100.00
		ATOM	1269	NZ	LYS A		6.679	67.075	40.835	1.00100.00
:		MOTA	1270	N	GLU A		8.519	63.097	43.082	1.00 37.25

	ATOM	1271	CA	GLU	Α	165	9.83	14	63.489	43.665	1.00	39.56
	ATOM	1272	С	GLU	Α	165	10.33	3.3	62.462	44.677	1.00	46.39
	ATOM	1273	Ó	GLU			11.5		62.318	44.927		48.93
~	ATOM	1274	CB	GLU			9.79		64.902	44.297		42.10
5	ATOM	1275	CG	GLU	Α	165	8.60	02	65.156	45.257	1.00	58.16
	ATOM	1276	CD	GLU	Α	165	7.23	14	64.970	44.664	1.00	88.01
	ATOM	1277	OEI	GLU	Α	165	6.99	94	64.757	43.475	1.00	79.46
	ATOM	1278		GLU			6.26		65.050	45.575		70.27
	ATOM	1279	N	LEU			9.39		61.733	45.265		40.39
10												
10	MOTA	1280	CA	LEU			9.69		60.733	46.254		36.56
	ATOM	1281	С	LEU			9.93	34	59.377	45.640	1.00	47.57
	MOTA	1282	0	LEU	А	166	9.36	56	59.080	44.581	1.00	52.86
	ATOM	1283	CB	LEU	Α	166	8.52	25	60.630	47.250	1.00	31.92
	ATOM	1284	CG	LEU			8.31		61.912	48.057		29.18
15	ATOM	1285		LEU			7.36			49.189		
10									61.590			25.96
	MOTA	1286		LEU			9.63		62.467	48.622		23.78
	ATOM	1287	N	VAL			10.78	59	58.564	46.328	1.00	34.75
	MOTA	1288	CA	VAL	Α	167	11.07	17	57.218	45.908	1.00	30.00
	ATOM	1289	С	VAL	Α	167	10.33	32	56.229	46.771	1.00	38.80
20	ATOM	1290	Ō	VAL			9.90		56.532	47.879		40.91
	ATOM	1291	CB	VAL			12.54					
									56.860	46.048		31.28
	ATOM	1292		VAL			12.85		55.542	45.329		28.20
	ATOM	1293	CG2	VAL	Α	167	13.45	56	57.964	45.565	1.00	31.06
	ATOM	1294	N	ALA	Α	168	10.21	17	55.019	46.257	1.00	36.46
25	MOTA	1295	CA	ALA	Α	168	9.58	34	53.935	46.979	1.00	35.14
	ATOM	1296	С	ALA			10.41	-	52.662	46.836		43.27
	ATOM	1297	ō	ALA								
							10.88		52.343	45.733		44.74
	ATOM	1298	СВ	ALA			8.14		53.700	46.550		34.20
20	MOTA	1299	N	LEU			10.60	)3	51.960	47.975	1.00	35.27
30	MOTA	1300	CA	LEU	A	169	11.32	23	50.696	48.069	1.00	29.39
	ATOM	1301	С	LEU	А	169	10.49	1	49.635	48,797	1.00	33.87
	MOTA	1302	0	LEU			9.60		49.918	49.613		31.21
	ATOM	1303	СВ	LEU			12.72		50.835	48.656		28.62
35	ATOM	1304	CG	LEU			13.59		51.810	47.891		35.90
33	ATOM	1305		LEU			14.95		51.819	48.558		39.38
	MOTA	1306	CD2	LEU			13.76	55	51.394	46.432	1.00	37.35
	MOTA	1307	N	MET	Α	170	10.75	8	48.381	48.479	1.00	34.23
	MOTA	1308	CA	MET	Α	170	10.01	12	47.291	49.069	1.00	31.07
	ATOM	1309	C	MET			10.87		46.083	49.287		34.13
40	ATOM	1310	ō	MET			11.99		45.973	48.775		35.20
	ATOM	1311	CB	MET			8.84		46.882	48.154		31.95
	MOTA	1312	CG	MET			7.75		47.934	48.116		33.13
	MOTA	1313	SD	MET	А	170	6.10	)5	47.253	47.815	1.00	34.54
	ATOM	1314	CE	MET	Α	170	5.82	20	46.349	49.363	1.00	32.25
45	ATOM	1315	N	SER	Α	171	10.33	32	45.165	50.057	1.00	28.20
	ATOM	1316	CA	SER	A	171	11.06	54	43.953	50.297	1.00	28.47
	MOTA	1317	С	SER			10.92		43.054			32.01
		1318										
	ATOM		0	SER			10.39		41.958	49.089		30.93
50	MOTA	1319	CB	SER			10.66		43.265	51.606		30.93
50	MOTA	1320	OG	SER	Α	171	9.29	₹7	42.920	51.581	1.00	32.90
	ATOM	1321	N	ALA	Α	172	11.40	)1	43.543	47.912	1.00	28.84
	ATOM	1322	CA	ALA	A.	172	11.28		42.773	46.691	1.00	29.48
	MOTA	1323	С	ALA			12.24		43.258	45.644		37.63
55	MOTA	1324	0	ALA			13.06		44.147	45.881		35.07
33	ATOM	1325	CB	ALA			9.88		42.969	46.120		29.48
	MOTA	1326	N	ILE	Α	173	12.10	)4	42.686	44.452		39.49
	ATOM	1327	CA	ILE	Α	173	12.96	56	43.120	43.382	1.00	38.64
	ATOM	1328	С	ILE			12.41		44.343	42.648	1.00	44.83
	ATOM	1329	Õ	ILE			11.26		44.394	42.193		40.97
60		1330					13.54			42.479		38.79
30	MOTA		CB	ILE					42.027			
	ATOM	1331		ILE			14.25		40.970	43.302		37.40
	MOTA	1332		ILE			14.60		42.621	41.570		38.88
	ATOM	1333	CD1	ILE	Α	173	15.77	70	41.069	43.193	1.00	25.93
	ATOM	1334	N	ARG			13.28		45.345	42.584	1.00	43.21
					- •	•		-				

	ATOM	1335	CA	ARG A 17	14 12	.997	46.567	41.917	1.00 42.34
	ATOM	1336	С	ARG A 17	4 12	.630	46.173	40.516	1.00 47.54
	MOTA	1337	0	ARG A 17	4 13	.478	45.667	39.770	1.00 42.08
_	ATOM	1338	CB	ARG A 17	14 14	.254	47.422	41.937	1.00 42.47
5	MOTA	1339	CG	ARG A 17	14 14	.231	48.450	43.075	1.00 53.40
	ATOM	1340	CD	ARG A 17	74 15	.617	48.917	43.515	1.00 33.80
	MOTA	1341	NE	ARG A 17	14 16	.036	50.083	42.756	1.00 53.32
	ATOM	1342	CZ	ARG A 17	14 17	.221	50.208	42.181	1.00 97.11
10	ATOM	1343	NH1	ARG A 17	4 18	.132	49.243	42.266	1.00100.00
10	ATOM	1344	NH2	ARG A 17	4 17	.503	51.321	41.489	1.00100.00
	ATOM	1345	N	ASP A 17		.356	46.356	40.195	1.00 51.12
	MOTA	1346	CA	ASP A 17		.858	45.981	38.882	1.00 53.89
	ATOM	1347	С	ASP A 17		.778	47.128	37.885	1.00 58.32
15	MOTA	1348	0	ASP A 17	_	.455	46.901	36.727	1.00 56.00
15	ATOM	1349	CB	ASP A 17		.533	45.186	38.948	1.00 57.16
	ATOM	1350	CG	ASP A 17		.196	44.446	37.675	1.00 81.25
	ATOM	1351		ASP A 17		.034	44.118	36.851	1.00 83.53
	ATOM	1352		ASP A 17		.910	44.176	37.558	1.00 92.45
20	ATOM	1353	N	GLY A 17		.062	48.356	38.331	1.00 58.24
20	ATOM	1354	CA	GLY A 17		.021	49.498	37.438	1.00 57.71
	ATOM	1355	C	GLY A 17		.969	50.546	37.773	1.00 58.98
	ATOM	1356	0	GLY A 17		.090	50.371	38.620	1.00 52.04
	ATOM	1357	N	GLU A 17		.110	51.649	37.050	1.00 63.72
25	ATOM ATOM	1358 1359	CA	GLU A 17		.267	52.812	37.172	1.00 67.79
23	ATOM	1360	C O	GLU A 17 GLU A 17		. 874	53.388 53.364	35.817	1.00 86.22
	ATOM	1361	СВ	GLU A 17		.614 .986	53.902	34.830 38.006	1.00 91.14
	ATOM	1362	CG	GLU A 17		.432	54.145	37.519	1.00 68.25 1.00 71.58
	ATOM	1363	CD	GLU A 17		.183	55.088	38.404	1.00 71.38
30	ATOM	1364	OE1			.045	54.733	39.198	1.00100.00
	MOTA	1365		GLU A 17		.765	56.316	38.264	1.00 56.71
	ATOM	1366	N	THR A 17		.671	53.924	35.835	1.00 84.76
	ATOM	1367	CA	THR A 17		. 684	54.686	35.042	1.00 84.81
	ATOM	1368	С	THR A 17		.024	55.810	35.855	1.00 90.37
35	ATOM	1369	0	THR A 17		. 664	55.655	36.996	1.00 91.10
	ATOM	1370	CB	THR A 17		.618	53.713	34.561	1.00 89.82
	ATOM	1371	OG1	THR A 17	8 5	.283	52.830	35.636	1.00 80.25
	ATOM	1372	CG2	THR A 17	8 6	.161	52.898	33.396	1.00 93.46
40	ATOM	1373	N	PRO A 17	9 5	.921	56.984	35.217	1.00 87.05
40	ATOM	1374	CA	PRO A 17	9 5	.365	58.187	35.845	1.00 86.61
	ATOM	1375	С	PRO A 17		.857	58.419	35.531	1.00 89.04
	ATOM	1376	0	PRO A 17		.444	59.516	35.140	1.00 91.15
	ATOM	1377	СВ	PRO A 17		.176	59.345	35.301	1.00 88.63
45	ATOM	1378	CG	PRO A 17		.657	58.947	33.895	1.00 92.62
43	ATOM	1379	CD	PRO A 17		. 426	57.345	33.902	1.00 87.63
	MOTA	1380	N	ASP A 18		.020	57.347	35.694	1.00 82.31
	ATOM	1381	CA	ASP A 18		.616	57.568	35.310	1.00 81.19
	ATOM	1382	C	ASP A 18		.629	56.743	36.166	1.00 90.72
50	MOTA	1383	0	ASP A 18		.533	55.519	36.072	1.00 91.13
50	ATOM	1384	CB	ASP A 18		.458	57.196	33.827	1.00 82.12
	ATOM ATOM	1385 1386	CG	ASP A 18		.087	57.651	33.327	1.00 95.94
	ATOM	1387		ASP A 18 ASP A 18		.155	58.858	33.337	1.00100.00
	ATOM	1388	N N	PRO A 18		.714 .060	56.801	32.946 37.086	1.00 94.36
55	ATOM	1389	CA	PRO A 18		.212	57.456 56.934	37.795	1.00 92.45 1.00 92.02
	ATOM	1390	C	PRO A 18		.519	57.566	37.793	1.00100.00
	ATOM	1391	Õ	PRO A 18		.605	58.114	36.192	
	ATOM	1392	СВ	PRO A 18		.014	57.340	39.210	1.00100.00 1.00 92.48
	ATOM	1393	CG	PRO A 18		.362	58.734	39.152	1.00 98.39
60	ATOM	1394	CD	PRO A 18		.268	58.736	37.663	1.00 94.17
	ATOM	1395	N	GLU A 18		.567	57.456	38.141	1.00100.00
	ATOM	1396	CA	GLU A 18		.822	58.161	37.876	1.00100.00
	ATOM	1397	C	GLU A 18		.359	58.856	39.154	1.00100.00
	ATOM	1398	Ô	GLU A 18		.404	59.497	39.167	1.00 99.44
	· =				•	•	·		++++

	ATOM	1399	СВ	GLU A	182	-5.85	54 57.142	37.356	1.00 98.57
	ATOM	1400	CG	GLU A		-5.88			
									1.00100.00
	ATOM	1401	CD	GLU A		-7.01			1.00100.00
_	MOTA	1402	OE1			-7.81			1.00100.00
5	ATOM	1403	OE2	GLU A	182	-7.08	34 58.15	34.091	1.00100.00
	MOTA	1404	N	ASP A 1	183	-4.60	7 58.67	40.265	1.00 98.63
	ATOM	1405	CA	ASP A	183	-5.02			1.00 97.49
	ATOM	1406	Ç.	ASP A		-4.12		-	1.00100.00
10	ATOM	1407	0	ASP A 1		-3.46			1.00100.00
10	ATOM	1408	CB	ASP A	183	-4.94	16 58.14	42.619	1.00 98.36
	MOTA	1409	CG	ASP A	183	-3.61	l2 57.40!	9 42.547	1.00100.00
	MOTA	1410	OD1	ASP A 1	183	-3.47	71 56.55	41.668	1.00100.00
	ATOM	1411		ASP A		-2.74			1.00100.00
	ATOM	1412	N	PRO A		-4.18			1.00 97.96
15									
13	ATOM	1413	CA	PRO A		-3.31			1.00 97.92
	ATOM	1414	С	PRO A 1		-1.86			1.00 97.89
	MOTA	1415	0	PRO A 1	184	-1.34	18 61.74	3 45.159	1.00100.00
	ATOM	1416	CB	PRO A 1	184	-3.97	73 62.56	L 44.992	1.00 98.86
	ATOM	1417	CG	PRO A 1		-5.26			1.00100.00
20	ATOM	1418	CD	PRO A 1		-5.12			1.00 97.20
20									
	MOTA	1419	N	SER A 1		-1.24			1.00 82.40
	ATOM	1420	CA	SER A 1	185	0.19	60.49	43.086	1.00 75.26
	ATOM	1421	С	SER A 1	185	0.74	8 60.563	3 41.623	1.00 71.84
	ATOM	1422	0	SER A 1	185	-0.00	60.52	40.670	1.00 77.97
25	ATOM	1423	СВ	SER A 1		0.33			1.00 73.41
		1424				0.67			
	ATOM		og	SER A 1					1.00 63.60
	ATOM	1425	N	ARG A 1	_	2.10			1.00 57.89
	MOTA	1426	CA	ARG A 1		2.65			1.00 56.00
	ATOM	1427	С	ARG A 1	186	3.72	59.943	39.633	1.00 59.64
30	ATOM	1428	0	ARG A 1	186	4.47	3 60.15	38.688	1.00 60.30
	ATOM	1429	СВ	ARG A 1		3.25			1.00 63.74
	ATOM	1430	CG	ARG A 1		2.33			1.00 80.44
	MOTA	1431	CD	ARG A 1		1.18			1.00 71.31
25	MOTA	1432	ИE	ARG A 1		1.31			1.00 79.64
35	ATOM	1433	cz	ARG A 1	186	0.18	5 62.862	37.784	1.00 95.30
	MOTA	1434	NHl	ARG A 1	186	-0.99	9 63.109	38.312	1.00 56.25
	MOTA	1435	NH2	ARG A 1	186	0.27	6 62.232	36.603	1.00 89.98
	MOTA	1436	N	LYS A 1		3.89			1.00 54.50
	ATOM	1437	CA	LYS A 1					
40						4.89			1.00 51.93
40	ATOM	1438	С	LYS A 1		4.50			1.00 52.96
	ATOM	1439	0	LYS A 1		3.97	1 56.23	41.368	1.00 53.58
	ATOM	1440	CB	LYS A 1	187	6.24	7 58.047	40.470	1.00 53.78
	MOTA	1441	CG	LYS A 1	L87	7.42	7 57.714	39.574	1.00 43.05
	ATOM	1442	CD	LYS A 1		8.51			1.00 53.36
45	ATOM	1443	CE	LYS A 1		9.87			1.00 39.68
		1444	NZ						
	MOTA			LYS A 1		10.79			1.00 40.19
	MOTA	1445	N	ILE A 1		4.81			1.00 46.36
	ATOM	1446	CA	ILE A 1	188	4.56	5 54.128	39.700	1.00 43.57
_	ATOM	1447	С	ILE A 1	L88	5.82	4 53.31	39.851	1.00 42.64
50	MOTA	1448	0	ILE A 1	L88	6.64	7 53,189	38.937	1.00 41.55
	ATOM	1449	CB	ILE A 1		3.57			1.00 45.64
	ATOM	1450		ILE A 1		2.19			
									1.00 45.82
	ATOM	1451		ILE A 1		3.59			1.00 43.43
	ATOM	1452	CD1	ILE A 1	L88	1.44	8 53.505	40.276	1.00 62.08
55	ATOM	1453	N	TYR A 1	189	5.95	0 52.75	41.042	1.00 35.58
	MOTA	1454	CA	TYR A 1	189	7.07	9 51.933	41.356	1.00 37.57
	ATOM	1455	C	TYR A 1		6.65			1.00 44.89
	ATOM	1456	0	TYR A 1		5.65			1.00 44.33
66	ATOM	1457	CB	TYR A 1		7.75			1.00 37.85
60	MOTA	1458	CG	TYR A 1	L89	8.69	2 53.563	42.456	1.00 34.49
	ATOM	1459	CD1	TYR A 1	189	9.96	8 53.375	41.930	1.00 35.93
	ATOM	1460		TYR A 1		8.31			1.00 32.44
	ATOM	1461		TYR A 1		10.84			1.00 36.88
	ATOM	1462	CE2	TYR A 1	เชษ	9.17	0 55.949	42.647	1.00 31.63

	MOTA	1463	CZ	TYR A 189	10.441	55.734	42.113	1.00 44.54
	ATOM	1464	OH	TYR A 189	11.296	56.788	41.929	1.00 57.77
	MOTA	1465	N	LYS A 190	7.413	49.651	40.608	1.00 42.91
	ATOM	1466	CA	LYS A 190	7.173	48.210	40.420	1.00 42.22
5	MOTA	1467	С	LYS A 190	8.152	47.262	41.143	1.00 40.73
	ATOM	1468	0	LYS A 190	9.398	47.400	41.093	1,00 35.69
	ATOM	1469	СВ	LYS A 190	7.007	47.839	38.944	1.00 45.87
	ATOM	1470	CG	LYS A 190	5.735	48.403	38.306	1.00 71.08
	MOTA	1471			5.758	48.384	36.779	1.00 84.62
10			CD	LYS A 190				
10	ATOM	1472	CE	LYS A 190	4.386	48.157	36.147	1.00100.00
	ATOM	1473	NZ	LYS A 190	4.299	46.930	35.329	1.00100.00
	ATOM	1474	N	PHE A 191	7.539	46.264	41.812	1.00 35.01
	MOTA	1475	CA	PHE A 191	8.276	45.304	42.592	1.00 31.57
	MOTA	1476	С	PHE A 191	7.792	43.871	42.465	1.00 30.89
15	ATOM	1477	0	PHE A 191	6.603	43.584	42.377	1.00 25.06
	ATOM	1478	CB	PHE A 191	8.217	45.734	44.080	1.00 32.11
	ATOM	1479	CG	PHE A 191	8.570	47.190	44.372	1.00 29.24
	MOTA	1480		PHE A 191	9.895	47.593	44.539	1.00 31.81
	ATOM	1481		PHE A 191	7.565	48.147	44.508	1.00 30.17
20	ATOM	1482	CE1		10.230	48.925	44.805	1.00 34.10
20								1.00 33.69
	ATOM	1483		PHE A 191	7.866	49.483	44.776	
	MOTA	1484	CZ	PHE A 191	9.201	49.860	44.928	1.00 33.32
	ATOM	1485	N	ILE A 192	8.764	42.961	42.505	1.00 35.75
~ =	ATOM	1486	CA	ILE A 192	8.525	41.520	42.415	1.00 37.02
25	ATOM	1487	С	ILE A 192	9.255	40.653	43.469	1.00 33.05
	MOTA	1488	0	ILE A 192	10.489	40.672	43.593	1.00 30.73
	MOTA	1489	CB	ILE A 192	8.850	40.970	41.025	1.00 42.45
	ATOM	1490		ILE A 192	8.289	41.914	39.981	1.00 46.39
	ATOM	1491	CG2	ILE A 192	8.251	39.567	40.859	1.00 44.02
30	ATOM	1492	CD1	ILE A 192	7.609	41.231	38.798	1.00 69.61
• •	MOTA	1493	N	GLN A 193	8.459	39.864	44.195	1.00 27.51
	ATOM	1494	CA	GLN A 193	8.954	38.908	45.177	1.00 32.05
	ATOM		C				44.757	1.00 32.03
		1495		GLN A 193	8.626	37.488		
35	ATOM	1496	0	GLN A 193	7.583	36.926	45.120	1.00 43.11
33	MOTA	1497	CB	GLN A 193	8.502	39.100	46.638	1.00 33.44
	ATOM	1498	CG	GLN A 193	9.285	38.203	47.632	1.00 22.34
	ATOM	1499	CD	GLN A 193	10.824	38.337	47.636	1.00 48.52
	ATOM	1500	OE1		11.557	37.537	47.016	1.00 45.24
40	MOTA	1501		GLN A 193	11.326	39.330	48.373	1.00 24.82
40	MOTA	1502	N	LYS A 194	9.543	36.908	43.993	1.00 46.91
	ATOM	1503	CA	LYS A 194	9.384	35.540	43.529	1.00 47.56
	MOTA	1504	C	LYS A 194	9.456	34.524	44.666	1.00 49.56
	ATOM	1505	0	LYS A 194	8.777	33.520	44.598	1.00 50.85
	MOTA	1506	CB	LYS A 194	10.385	35.159	42.439	1.00 48.11
45	ATOM	1507	CG	LYS A 194	9.884	35.443	41.031	1.00 55.70
	ATOM	1508	CD	LYS A 194		36.200		1.00 67.67
	ATOM	1509	CE	LYS A 194	10.614	36.122	38.682	1.00 81.92
	MOTA	1510	NZ	LYS A 194	11.284	37.185	37.910	1.00 88.34
	ATOM	1511	N	VAL A 195	10.308	34.753	45.689	1.00 39.55
50	ATOM	1512	CA	VAL A 195	10.422	33.780	46.764	1.00 33.56
20	ATOM	1512			9.261			
			C	VAL A 195		33.862	47.698	1.00 35.67
	ATOM	1514	0	VAL A 195	8.804	34.945	48.034	1.00 38.69
	MOTA	1515	CB	VAL A 195	11.716	33.844	47.560	1.00 32.62
<i></i>	ATOM	1516		VAL A 195	11.849	32.539	48.310	1.00 32.40
55	MOTA	1517	CG2	VAL A 195	12.933	34.029	46.667	1.00 30.55
	MOTA	1518	N	PRO A 196	8.770	32.717	48.126	1.00 27.75
	MOTA	1519	CA	PRO A 196	7.653	32.757	49.038	1.00 26.18
	ATOM	1520	С	PRO A 196	8.132	33.236	50.410	1.00 35.86
	ATOM	1521	0	PRO A 196	9.185	32.809	50.899	1.00 35.43
60	ATOM	1522	СВ	PRO A 196	7.022	31.359	49.044	1.00 26.04
	MOTA	1523	CG	PRO A 196	7.856	30.472	48.113	1.00 27.79
	ATOM	1524	CD	PRO A 196	.8.964	31.352	47.546	1.00 25.40
	ATOM	1525	N	ILE A 197	7.388	34.171	51.009	1.00 23.40
	ATOM	1525	CA	ILE A 197	7.772			
	VION	1320	CA	TPE W 13/	1.112	34.697	52.284	1.00 26.98

	3.0007	1507	~	TTD N 107		24 222	C2 120	1 00 24 00
	ATOM	1527	С	ILE A 197	6.544	34.809	53.128	1.00 34.88
	ATOM	1528	0	ILE A 197	5.444	34.788	52.606	1.00 29.68
	ATOM	1529	CB	ILE A 197	8.334	36.100	52.094	1.00 27.90
	ATOM	1530	CG1	ILE A 197	7.342	36.867	51.254	1.00 27.78
5	ATOM	1531	CG2	ILE A 197	9.659	36.091	51.337	1.00 28.12
	ATOM	1532		ILE A 197	7.494	38.378	51.438	1.00 19.03
	ATOM	1533	N	PRO A 198	6.743	34.936	54.447	1.00 36.02
		1534	CA					
	ATOM			PRO A 198	5.647	35.110	55.410	1.00 31.31
10	ATOM	1535	С	PRO A 198	5.299	36.583	55.308	1.00 28.27
10	ATOM	1536	0	PRO A 198	6.212	37.391	55.115	1.00 22.70
	ATOM	1537	CB	PRO A 198	6.252	34.849	56.794	1.00 31.17
	ATOM	1538	CG	PRO A 198	7.768	34.768	56.615	1.00 34.94
	ATOM	1539	CD	PRO A 198	8.057	34.706	55.122	1.00 32.99
	MOTA	1540	N	CYS A 199	4.011	36.939	55.405	1.00 27.60
15	ATOM	1541	CA	CYS A 199	3.555	38.360	55.289	1.00 27.66
	ATOM	1542	C.	CYS A 199	4.255	39.390	56.187	1.00 30.13
		1543	ŏ	CYS A 199				1.00 30.13
	ATOM				4.294	40.596	55.895	
	ATOM	1544	CB	CYS A 199	2.025	38.534	55.242	1.00 27.18
20	ATOM	1545	SG	CYS A 199	1.232	38.279	56.841	1.00 30.85
20	MOTA	1546	N	TYR A 200	4.847	38.903	57.270	1.00 26.15
	ATOM	1547	CA	TYR A 200	5.538	39.798	58.123	1.00 28.28
	ATOM	1548	С	TYR A 200	6.760	40.395	57.483	1.00 32.29
	MOTA	1549	0	TYR A 200	7.359	41.286	58.036	1.00 31.56
	ATOM	1550	СВ	TYR A 200	5.844	39.215	59.489	1.00 30.59
25	ATOM	1551	CG	TYR A 200	6.989	38.272	59.568	1.00 28.28
	ATOM	1552		TYR A 200			59.689	1.00 20.20
					8.288	38.733		
	ATOM	1553		TYR A 200	6.756	36.903	59.475	1.00 27.55
	ATOM	1554	CE1		9.377	37.862	59.825	1.00 21.42
•	ATOM	1555	CE2	TYR A 200	7.838	36.015	59.595	1.00 27.41
30	ATOM	1556	CZ	TYR A 200	9.144	36.488	59.737	1.00 25.11
	ATOM	1557	OH	TYR A 200	10.215	35.614	59.880	1.00 27.62
	ATOM	1558	N	LEU A 201	7.113	39.897	56.313	1.00 31.66
	MOTA	1559	CA	LEU A 201	8.278	40.378	55.579	1.00 29.49
	MOTA	1560	C	LEU A 201	7.914	41.343	54.484	1.00 33.65
35	ATOM	1561	Õ	LEU A 201	8.767	41.737	53.686	1.00 35.31
00		1562	СВ					
	ATOM			LEU A 201	9.225	39.275	55.035	1.00 27.04
	ATOM	1563	CG	LEU A 201	9.697	38.271	56.071	1.00 27.42
	ATOM	1564		LEU A 201	10.254	37.030	55.390	1.00 23.71
40	ATOM	1565		LEU A 201	10.764	38.913	56.957	1.00 30.55
40	MOTA	1566	N	ILE A 202	6.648	41.710	54.438	1.00 28.66
	MOTA	1567	CA	ILE A 202	6.249	42.674	53.433	1.00 29.57
	ATOM	1568	С	ILE A 202	6.636	44.074	53.951	1.00 40.28
	MOTA	1569	0	ILE A 202	6.192	44.493	55.027	1.00 40.75
	ATOM	1570	СВ	ILE A 202	4.733	42.651	53.182	1.00 31.18
45	ATOM	1571		ILE A 202	4.250	41.429	52.405	1.00 28.21
	ATOM	1572		ILE A 202	4.259			
		1573						
	ATOM			ILE A 202	2.724	41.288	52.449	1.00 23.01
	ATOM	1574	N	ALA A 203	7.445	44.813	53.197	1.00 39.14
50	ATOM	1575	CA	ALA A 203	7.840	46.150	53.611	1.00 37.03
50	ATOM	1576	С	ALA A 203	7.819	47.159	52.482	1.00 34.32
	ATOM	157 <b>7</b>	0	ALA A 203	8.060	46.836	51.311	1.00 30.63
	ATOM	1578	CB	ALA A 203	9.180	46.143	54.309	1.00 38.22
	ATOM	1579	N	LEU A 204	7.514	48.388	52.910	1.00 33.64
	ATOM	1580	CA	LEU A 204	7.388	49.604	52.102	1.00 32.56
55	ATOM	1581	c	LEU A 204	7.993	50.817	52.812	1.00 37.69
	ATOM	1582	0	LEU A 204				1.00 37.09
					7.854	51.037	54.034	
	ATOM	1583	CB	LEU A 204	5.906	49.929	51.718	1.00 29.74
	ATOM	1584	CG	LEU A 204	5.706	51.182	50.855	1.00 29.64
<b>60</b>	MOTA	1585		LEU A 204	6.263	50.994	49.445	1.00 29.47
<b>6</b> 0	MOTA	1586	CD2	LEU A 204	4.222	51.515	50.750	1.00 33.50
	ATOM	1587	N	VAL A 205	8.670	51.603	51.991	1.00 36.87
	ATOM	1588	CA	VAL A 205	9.305	52.821	52.415	1.00 35.15
	ATOM	1589	C	VAL A 205	9.224	53.795	51.284	1.00 38.41
	ATOM	1590	0	VAL A 205				
	VION	1330	J	VAL A 200	9.575	53.462	50.148	1.00 39.50

	3.0004	1501	<b>an</b>			10 760	FO (F1	50.004	1 00 26 06
	ATOM	1591	CB	VAL A 20		10.769	52.651	52.804	1.00 36.06
	ATOM	1592		VAL A 20		11.466	51.794	51.757	1.00 35.08
	MOTA	1593		VAL A 20		11.432	54.020	52.833	1.00 35.98
5	ATOM	1594	N	VAL A 20		8.750	54.983	51.623	1.00 33.54
,	ATOM	1595	CA	VAL A 20		8.623	56.104	50.687	1.00 31.81
	ATOM	1596	C	VAL A 20		9.300	57.343	51.249	1.00 31.62
	ATOM	1597	0	VAL A 20		9.076	57.722	52.406	1.00 34.81
	ATOM	1598	CB	VAL A 20		7.179	56.405	50.305	1.00 33.35
10	ATOM ATOM	1599 1600		VAL A 20		7.129 6.452	57.243	49.029 50.109	1.00 33.44 1.00 31.98
10	ATOM	1601	N N	VAL A 20 GLY A 20		10.130	55.084 57.959	50.109	1.00 31.98
	ATOM	1602	CA	GLY A 20		10.130	59.168	50.451	1.00 27.25
	ATOM	1603	C	GLY A 20		11.802	59.632	49.838	1.00 38.81
	ATOM	1604	õ	GLY A 20		12.046	58,966	48.840	1.00 39.82
15	ATOM	1605	N	ALA A 20		12.375	60.783	50.113	1.00 41.07
10	ATOM	1606	CA	ALA A 20		13.370	61.354	49.233	1.00 42.72
	MOTA	1607	c c	ALA A 20		14.660	60.550	49.356	1.00 49.10
	ATOM	1608	ő	ALA A 20		15.651	60.997	49.957	1.00 51.30
	ATOM	1609	СВ	ALA A 20		13.605	62.810	49.589	1.00 42.95
20	ATOM	1610	N	LEU A 20		14.623	59.350	48.773	1.00 40.92
	ATOM	1611	CA	LEU A 20		15.739	58.440	48.825	1.00 39.55
	ATOM	1612	C	LEU A 20		16.756	58.575	47.743	1.00 47.96
	ATOM	1613	ŏ	LEU A 20		16.420	58.843	46.597	1.00 49.44
	ATOM	1614	CB	LEU A 20		15.269	56.994	48.894	1.00 37.97
25	ATOM	1615	CG	LEU A 20		14.420	56.803	50.129	1.00 40.46
	ATOM	1616	CD1	LEU A 20	9	13.713	55.469	50.075	1.00 36.99
	ATOM	1617	CD2	LEU A 20	9	15.283	56.921	51.387	1.00 43.31
	ATOM	1618	N	GLU A 21	LO	17.999	58.317	48.182	1.00 42.68
••	ATOM	1619	CA	GLU A 2	10	19.205	58.311	47.381	1.00 40.30
30	ATOM	1620	С	GLU A 21	LO	19.965	57.056	47.693	1.00 47.51
	MOTA	1621	0	GLU A 21	ro	19.708	56.432	48.721	1.00 47.89
	ATOM	1622	CB	GLU A 2	10	20.084	59.553	47.613	1.00 42.01
	ATOM	1623	CG	GLU A 2		19.699	60.734	46.697	1.00 58.26
25	MOTA	1624	CD	GLU A 2		20.524	61.970	46.897	1.00100.00
35	ATOM	1625		GLU A 2		21.629	61.968	47.451	1.00 95.26
	MOTA	1626		GLU A 2		19.935	63.047	46.486	1.00100.00
	ATOM	1627	N	SER A 2		20.895	56.662	46.805	1.00 45.01
	ATOM	1628	CA	SER A 2		21.661	55.442	47.013	1.00 42.25
40	ATOM	1629	C	SER A 2		23.143	55.535	46.667	1.00 43.37
70	ATOM ATOM	1630 1631	O CB	SER A 23		23.649 21.025	56.493 54.233	46.086 46.346	1.00 46.43
	ATOM	1632	OG	SER A 2		21.023	54.244	44.934	1.00 54.15
	ATOM	1633	N	ARG A 2		23.829	54.497	47.053	1.00 34.15
	ATOM	1634	CA	ARG A 2		25.229	54.328	46.791	1.00 34.03
45	ATOM	1635	C	ARG A 2		25.430	52.838	46.567	1.00 45.39
	ATOM	1636	o	ARG A 2		24.840			
	ATOM	1637	СВ	ARG A 2		26.101	54.846	47.915	1.00 37.25
	ATOM	1638	CG	ARG A 2		27.151	55.827	47.402	1.00 68.10
	ATOM	1639	CD	ARG A 2		26.532	56.962	46.587	1.00 76.55
50	ATOM	1640	NE	ARG A 2		26.695	58.307	47.148	1.00 55.19
	ATOM	1641	CZ	ARG A 2		25.845	59.301	46.867	1.00 70.87
	ATOM	1642		ARG A 2		24.806	59.105	46.059	1.00 35.71
	ATOM	1643	NH2	ARG A 2	12	26.032	60.516	47.392	1.00 73.35
	ATOM	1644	N	GLN A 2		26.210	52.442	45.567	1.00 40.74
55	ATOM	1645	CA	GLN A 2	13	26.408	51.021	45.331	1.00 39.90
	ATOM	1646	С	GLN A 2	13	27.646	50.537	46.050	1.00 46.34
	ATOM	1647	0	GLN A 2		28.740	50.981	45.741	1.00 53.77
	ATOM	1648	CB	GLN A 2		26.545	50.741	43.846	1.00 40.99
<b>.</b>	ATOM	1649	CG	GLN A 2		26.976	49.296	43.532	1.00 55.79
60	ATOM	1650	CD	GLN A 2		26.292	48.743	42.301	1.00 76.04
	ATOM	1651		GLN A 2		26.275	47.523	42.102	1.00 86.66
	MOTA	1652		GLN A 2		25.700	49.618	41.489	1.00 55.45
	ATOM	1653	N	ILE A 2		27.495	49.649	47.013	1.00 33.12
	ATOM	1654	CA	ILE A 2	14	28.663	49.206	47.743	1.00 32.55

	ATOM	1655	С	ILE A 214	28.911	47.765	47.536	1.00 39.29
	ATOM	1656	0	ILE A 214	29.726	47.162	48.230	1.00 42.41
	ATOM	1657	СВ	ILE A 214	28.546	49.428	49.250	1.00 35.72
	ATOM	1658		ILE A 214	27.395	48.573	49.791	1.00 36.13
5								
3	ATOM	1659		ILE A 214	28.344	50.911	49.598	1.00 35.79
	MOTA	1660	CD1	ILE A 214	27.067	48.841	51.260	1.00 46.69
	ATOM	1661	N	GLY A 215	28.199	47.197	46.598	1.00 35.02
	MOTA	1662	CA	<b>GLY A 215</b>	28.638	45.855	46.234	1.00 34.88
	ATOM	1663	С	GLY A 215	27.970	45.405	44.950	1.00 41.09
10	ATOM	1664	ō	GLY A 215	27.083	46.048	44.425	1.00 44.25
	ATOM	1665		PRO A 216	28.448	44.262	44.410	1.00 39.62
			N					
	MOTA	1666	CA	PRO A 216	27.890	43.720	43.197	1.00 39.69
	MOTA	1667	С	PRO A 216	26.369	43.661	43.253	1.00 41.56
	ATOM	1668	0	PRO A 216	25.655	43.817	42.240	1.00 44.35
15	MOTA	1669	CB	PRO A 216	28.448	42.311	42.996	1.00 39.91
	ATOM	1670	CG	PRO A 216	29.377	41.993	44.164	1.00 41.54
	ATOM	1671	CD	PRO A 216	29.514	43.411	44.897	1.00 37.70
								1.00 31.04
	MOTA	1672	N	ARG A 217	25.846	43.398	44.477	
20	MOTA	1673	CA	ARG A 217	24.421	43.328	44.652	1.00 29.22
20	ATOM	1674	С	ARG A 217	23.928	44.109	45.872	1.00 38.24
	ATOM	1675	0	ARG A 217	22.861	43.885	46.368	1.00 40.69
	ATOM	1676	CB	ARG A 217	24.012	41.844	44.790	1.00 22.75
	ATOM	1677	CG	ARG A 217	25.221	40.963	45.109	1.00 40.77
	ATOM			ARG A 217	24.828	39.774	45.985	1.00 34.08
25		1678	CD					
23	ATOM	1679	NE	ARG A 217	26.020	39.183	46.581	1.00 45.20
	ATOM	1680	CZ	ARG A 217	25.955	37.894	46.911	1.00 65.13
	MOTA	1681	NH1	ARG A 217	24.832	37.220	46.716	1.00 42.40
	MOTA	1682	NH2	ARG A 217	26.997	37.300	47.472	1.00 48.08
	ATOM	1683	N	THR A 218	24.784	45.022	46.404	1.00 31.00
30	ATOM	1684	CA	THR A 218	24.309	45.886	47.487	1.00 31.00
	MOTA	1685	С	THR A 218	24.128	47.319	47.021	1.00 43.60
	ATOM	1686	Ö	THR A 218	25.065	47.930	46.512	1.00 48.42
							48.640	1.00 36.95
	ATOM	1687	CB	THR A 218	25.315	45.845		
25	MOTA	1688		THR A 218	25.430	44.517	49.139	1.00 45.66
35	MOTA	1689	CG2	THR A 218	24.826	46.751	49.766	1.00 34.17
	MOTA	1690	N	LEU A 219	23.099	48.018	47.431	1.00 39.19
	ATOM	1691	CA	LEU A 219	23.055	49.452	47.315	1.00 38.18
	ATOM	1692	С	LEU A 219	22.713	50.000	48.695	1.00 42.32
	ATOM	1693	ō	LEU A 219	22.108	49.289	49,498	1.00 43.67
40	ATOM	1694	СВ	LEU A 219	21.927	49.841	46.356	1.00 37.05
10		1695	CG	LEU A 219	22.386	50.657	45.168	1.00 39.31
	ATOM							
	MOTA	1696	CD1		23.670	50.064	44.613	1.00 40.57
	ATOM	1697		LEU A 219	21.283	50.619	44.131	1.00 29.39
4.5	MOTA	1698	N	VAL A 220	23.066	51.241	48.976	1.00 35.01
45	MOTA	1699	CA	VAL A 220	22.741	51.830	50.253	1.00 36.98
	MOTA	1700	С	VAL A 220	21.736	52.923	50.043	1.00 44.08
	MOTA	1701	0	VAL A 220	21.959	53.835	49.256	1.00 46.60
	ATOM	1702	СВ	VAL A 220	23.965	52.346	51.028	1.00 44.95
	ATOM	1703		VAL A 220	23.675	52.428	52.516	1.00 43.16
50		-						
50	ATOM	1704		VAL A 220	25.138	51.382	50.828	1.00 47.70
	MOTA	1705	. <b>N</b>	TRP A 221	20.622	52.818	50.731	1.00 41.98
	ATOM	1706	CA	TRP A 221	19.605	53.828	50.602	1.00 41.64
	ATOM	1707	С	TRP A 221	19.464	54.612	51.872	1.00 42.40
	ATOM	1708	0	TRP A 221	19.461	54.060	52.960	1.00 45.56
55	MOTA	1709	СВ	TRP A 221	18.256	53.245	50.186	1.00 41.24
	ATOM	1710	CG	TRP A 221	18.353	52.459	48.918	1.00 42.59
								1.00 45.35
	MOTA	1711		TRP A 221	18.888	51.225	48.793	
	ATOM	1712		TRP A 221	17.949	52.873	47.590	1.00 41.62
	ATOM	1713		TRP A 221	18.826	50.832	47.478	1.00 44.74
60	ATOM	1714	CE2	TRP A 221	18.243	51.821	46.720	1.00 45.31
	ATOM	1715	CE3	TRP A 221	17.345	54.009	47.061	1.00 41.17
	ATOM	1716		TRP A 221	17.958	51.902	45.346	1.00 42.60
	ATOM	1717		TRP A 221	17.054	54.083	45.710	1.00 39.08
	ATOM	1718		TRP A 221	17.360	53.040	44.864	1.00 38.48
	AIUN	1/10	CHZ	TUE W 221	11.300	33.040	17.004	1.00 30.40

	ATOM	1719	N	SER A		19.271	55.896	51.688	1.00 37.01
	ATOM	1720	CA	SER A		19.017	56.846	52.748	1.00 38.05
	ATOM	1721	¢	SER A		18.853	58.251	52.205	1.00 45.28
-	MOTA	1722	0	SER A	222	19.005	58.503	51.008	1.00 44.02
5	ATOM	1723	CB	SER A	222	20.098	56.816	53.820	1.00 39.07
	MOTA	1724	OG	SER A	222	21.322	57.149	53.229	1.00 42.36
	ATOM	1725	N	GLU A	223	18.586	59.190	53.088	1.00 40.91
	MOTA	1726	CA	GLU A	223	18.465	60.527	52.584	1.00 41.97
	ATOM	1727	С	GLU A		19.843	61.042	52.234	1.00 50.17
10	ATOM	1728	0	GLU A		20.829	60.701	52.863	1.00 52.02
	ATOM	1729	CB	GLU A		17.856	61.483	53.597	1.00 43.06
	ATOM	1730	CG	GLU A		16.364	61.262	53.861	1.00 51.71
	ATOM	1731	CD	GLU A		15.799	62.478	54.545	1.00 84.51
	ATOM	1732		GLU A		15.905	63.610	54.085	1.00 56.82
15	MOTA	1733	OE2			15.244	62.222	55.705	1.00 88.87
-	ATOM	1734	N	LYS A		19.892	61.875	51.229	1.00 47.39
	ATOM	1735	CA	LYS A		21.139	62.456	50.792	1.00 48.51
	ATOM	1736	C	LYS A		22.163	62.683	51.930	1.00 50.90
	ATOM	1737	ō	LYS A		23.382	62.569	51.736	1.00 51.55
20	ATOM	1738	СВ	LYS A		20.843	63.736	49.986	1.00 51.58
	ATOM	1739	CG	LYS A		22.039	64.648	49.723	
	MOTA	1740	CD						1.00 81.16
	ATOM	1741		LYS A		21.954	65.397	48.392	1.00 97.82
			CE	LYS A		21.646	66.891	48.530	1.00100.00
25	MOTA MOTA	1742	NZ	LYS A		22.056	67.700	47.362	1.00100.00
2.5		1743	N	GLU A		21.683	63.011	53.123	1.00 45.77
	MOTA	1744	CA	GLU A		22.607	63.309	54.199	1.00 46.00
	ATOM	1745	С	GLU A		23.227	62.150	54.902	1.00 47.99
	MOTA MOTA	1746	0	GLU A		24.107	62.354	55.732	1.00 47.21
30	ATOM	1747	CB	GLU A		22.057	64.296	55.210	1.00 47.71
30		1748	CG	GLU A		20.530	64.296	55.182	1.00 63.24
	ATOM	1749	CD	GLU A		19.931	65.219	54.150	1.00 75.13
	ATOM	1750	OE1			20.187	66.420	54.046	1.00 54.64
	ATOM	1751	OE2			19.039	64.578	53.420	1.00 49.64
35	ATOM	1752	N	GLN A		22.798	60.949	54.564	1.00 43.92
33	MOTA	1753	CA	GLN A		23.340	59.772	55.224	1.00 43.91
	MOTA	1754	C	GLN A		24.036	58.756	54.322	1.00 45.86
	MOTA	1755	0	GLN A		24.756	57.871	54.806	1.00 45.70
	MOTA	1756	CB	GLN A		22.252	59.084	56.063	1.00 45.27
40	MOTA	1757	CG	GLN A		21.965	59.790	57.400	1.00 31.17
.40	ATOM	1758	CD	GLN A		21.297	61.155	57.302	1.00 44.48
	ATOM	1759		GLN A		21.823	62.149	57.820	1.00 37.36
	ATOM	1760		GLN A		20.115	61.202	56.696	1.00 30.28
	ATOM	1761	N	VAL A		23.814	58.871	53.021	1.00 41.20
AE	ATOM	1762	CA	VAL A		24.406	57.947	52.071	1.00 43.13
45	MOTA	1763	С	VAL A		25.884	57.670	52.261	1.00 50.55
	ATOM	1764	0	VAL A		26.298	56.518	52.480	
	ATOM	1765	СВ			24.155	58.293	50.604	1.00 49.39
	ATOM	1766		VAL A		24.319	57.029	49.771	1.00 48.89
50	ATOM	1767		VAL A		22.752	58.851	50.421	1.00 50.47
50	ATOM	1768	N	GLU A		26.696	58.718	52.170	1.00 44.08
	ATOM	1769	CA	GLU A		28.123	58.542	52.310	1.00 41.71
	MOTA	1770	С	GLU A		28.514	57.871	53.583	1.00 44.20
	ATOM	1771	0	GLU A		29.227	56.868	53.589	1.00 44.88
	MOTA	1772	CB	GLU A		28.935	59.824	52.102	1.00 43.08
55	ATOM	1773	CG	GLU A		29.153	60.161	50.611	1.00 64.74
	ATOM	1774	CD	GLU A		29.114	58.965	49.701	1.00 84.29
	ATOM	1775		GLU A		29.975	58.107	49.685	1.00 84.36
	ATOM	1776	OE2	GLU A		28.064	58.951	48.917	1.00 73.81
<b></b>	MOTA	1777	N	LYS A		28.066	58.423	54.685	1.00 39.79
60	ATOM	1778	CA	LYS A	229	28.449	57.796	55.922	1.00 39.04
	MOTA	1779	C	LYS A		27.949	56.375	55.930	1.00 40.38
	MOTA	1780	0	LYS A	229	28.639	55.433	56.346	1.00 43.63
	ATOM	1781	СВ	LYS A	229	28.129	58.585	57.187	1.00 39.79
•	ATOM	1782	CG	LYS A	229	28.903	58.072	58.394	1.00 63.75

		1702	an.	7 V C . 3 C	0 00 40		50 605	1 00 77 46
	ATOM	1783	CD	LYS A 22			59.685	1.00 77.46
	MOTA	1784	CE	LYS A 22			60.593	1.00 94.73
	MOTA	1785	ΝZ	LYS A 22	9 30.34	14 60.353	60.256	1.00100.00
	MOTA	1786	N	SER A 23	0 26,74	11 56.220	55.428	1.00 28.48
5	ATOM	1787	CA	SER A 23	0 26.17	74 54.891	55.377	1.00 25.93
	ATOM	1788	c	SER A 23			54.587	1.00 30.26
		1789		SER A 23			54.955	1.00 28.48
	ATOM		0					
	ATOM	1790	CB	SER A 23			54.694	1.00 30.08
	MOTA	1791	OG	SER A 23	0 23.82	22 55.293	55.605	1.00 41.60
10	ATOM	1792	N	ALA A 23	1 27.43	36 54.536	53.459	1.00 31.13
	ATOM	1793	CA	ALA A 23			52.593	1.00 36.66
	ATOM	1794	c .	ALA A 23	_		53.270	1.00 47.68
	ATOM	1795	0	ALA A 23			53.103	1.00 54.59
	ATOM	1796	CB	ALA A 23			51.257	1.00 38.49
15	MOTA	1797	N	TYR A 23	2 30.25	6 54.246	54.060	1.00 40.77
	MOTA	1798	CA	TYR A 23	2 31.50	00 53.830	54.730	1.00 38.40
	ATOM	1799	С	TYR A 23			55.753	1.00 39.70
	ATOM	1800	ŏ	TYR A 23			55.862	1.00 36.46
20	ATOM	1801	CB	TYR A 23			55.414	1.00 38.27
20	MOTA	1802	CG	TYR A 23			56.303	1.00 42.36
	MOTA	1803	CD1	TYR A 23	2 34.75	55 54.238	55.753	1.00 46.41
	ATOM	1804	CD2	TYR A 23	2 33.37	3 54.394	57.691	1.00 40.99
	ATOM	1805	CE1				56.534	1.00 47.23
	ATOM	1806	CE2	TYR A 23			58.496	1.00 40.10
25								
23	MOTA	1807	CZ	TYR A 23			57.916	1.00 48.59
	MOTA	1808	OH	TYR A 23	2 36.73		58.698	1.00 51.92
	ATOM	1809	N	GLU A 23	3 30.19	52.883	56.519	1.00 35.75
	ATOM	1810	CA	GLU A 23	3 29.83	5 51.984	57.606	1.00 34.55
	ATOM	1811	С	GLU A 23			57.252	1.00 38.39
30	ATOM	1812	ō	GLU A 23			57.892	1.00 38.55
50								
	ATOM	1813	СВ	GLU A 23			58.414	1.00 34.48
	ATOM	1814	CG	GLU A 23			59.912	1.00 24.95
	MOTA	1815	CD	GLU A 23	3 29.46	53.183	60.787	1.00 37.55
	ATOM	1816	OE1	GLU A 23	3 29.40	8 54.410	60.741	1.00 55.33
35	ATOM	1817	OE2	GLU A 23	3 30.21	6 52.518	61.619	1.00 40.65
	ATOM	1818	N	PHE A 23			56.202	1.00 33.02
							55.719	1.00 29.90
	ATOM	1819	CA	PHE A 23				
	ATOM	1820	С	PHE A 23			54.592	1.00 34.69
	ATOM	1821	0	PHE A 23	4 28.88	3 47.521	53.823	1.00 34.21
40	ATOM	1822	CB	PHE A 23	4 27.02	0 49.081	55.293	1.00 30.23
	MOTA	1823	CG	PHE A 23	4 26.21	5 49.752	56.394	1.00 30.32
	ATOM	1824		PHE A 23			57.739	1.00 31.50
	ATOM	1825		PHE A 23			56.102	1.00 28.66
AE	MOTA	1826		PHE A 23			58.772	1.00 30.43
45	ATOM	1827	CE2				57.121	1.00 29.60
	ATOM	1828	CZ	PHE A 23			58.458	1.00 27.47
	ATOM	1829	N	SER A 23	5 30.57	11 48.874	54.476	1.00 29.55
	MOTA	1830	CA	SER A 23			53.412	1.00 28.64
	ATOM	1831	C	SER A 23			53.338	1.00 30.38
50	MOTA	1832	ō	SER A 23			52.282	1.00 32.37
50								
	MOTA	1833	CB	SER A 23			53.604	1.00 31.15
	MOTA	1834	OG	SER A 23			54.873	1.00 39.32
	ATOM	1835	N	GLU A 23	6 31.69	8 46.299	54.504	1.00 22.49
	ATOM	1836	CA	GLU A 23	6 31.81	15 44.873	54.737	1.00 23.79
55	ATOM	1837	C	GLU A 23			54.380	1.00 32.37
-				GLU A 23			54.545	1.00 29.91
	MOTA	1838	0					
	ATOM	1839	CB	GLU A 23			56.134	1.00 24.06
	ATOM	1840	CG	GLU A 23			56.585	1.00 22.96
	ATOM	1841	CD	GLU A 23	6 33.60	00 45.492	58.090	1.00 66.18
60	ATOM	1842	OE1				58.849	1.00 37.01
	ATOM	1843		GLU A 23			58.494	1.00 78.68
							53.891	1.00 70.00
	ATOM	1844	N	THR A 23				
	ATOM	1845	CA	THR A 23			53.539	1.00 33.69
	ATOM	1846	С	THR A 23	7 28.6	44 42.609	52.644	1.00 33.33

	ATOM	1847	0	THR A	237	28.517	41.451	53.048	1.00 31.09
	MOTA	1848	CB	THR A		27.218	44.710	53.057	1.00 37.99
	ATOM	1849	OG1	THR A	237	26.899	45.675	54.048	1.00 33.49
_	ATOM	1850	CG2	THR A	237	25.995	43.862	52.744	1.00 25.66
5	ATOM	1851	N	GLU A	238	29.020	42.854	51.409	1.00 29.69
	ATOM	1852	CA	GLU A	238	29.267	41.734	50.520	1.00 27.05
	ATOM	1853	С	GLU A	238	30.071	40.638	51.146	1.00 33.17
	ATOM	1854	0	GLU A	238	29.660	39.497	51.055	1.00 38.50
	ATOM	1855	CB	GLU A	238	29.851	42.080	49.161	1.00 27.50
10	ATOM	1856	CG	GLU A	238	30.116	40.813	48.320	1.00 18.83
	ATOM	1857	CD	GLU A	238	28.902	40.297	47.596	1.00 41.67
	ATOM	1858	OE1	GLU A	238	27.848	40.909	47.464	1.00 33.59
	ATOM	1859	OE2	GLU A	238	29.085	39.089	47.138	1.00 46.30
	ATOM	1860	N	SER A	239	31.203	40.973	51.772	1.00 24.44
15	ATOM	1861	CA	SER A	239	32.045	39.957	52.387	1.00 24.60
	ATOM	1862	С	SER A	239	31.245	39.060	53.344	1.00 35.72
	ATOM	1863	0	SER A	239	31.379	37.830	53.360	1.00 35.25
	ATOM	1864	CB	SER A	239	33.231	40.601	53.074	1.00 29.14
	ATOM	1865	OG	SER A	239	32.747	41.590	53.961	1.00 54.60
20	ATOM	1866	N	MET A	240	30.382	39.703	54.154	1.00 33.13
	ATOM	1867	CA	MET A	240	29.529	38.993	55.091	1.00 28.55
	MOTA	1868	С	MET A		28.603	38.075	54.325	1.00 35.65
	ATOM	1869	0	MET A	240	28.435	36.926	54.689	1.00 35.99
	ATOM	1870	CB	MET A	240	28.736	39.945	55.993	1.00 26.50
25	MOTA	1871	CG	MET A	240	29.691	40.675	56.910	1.00 27.57
	ATOM	1872	SD	MET A	240	28.871	41.986	57.833	1.00 32.91
	ATOM	1873	CE	MET A	240	30.040	42.085	59.183	1.00 28.47
	MOTA	1874	N	LEU A	241	28.019	38.603	53.243	1.00 32.77
•	MOTA	1875	CA	LEU A	241	27.120	37.859	52.381	1.00 29.87
30	ATOM	1876	С	LEU A	241	27.848	36.615	51.878	1.00 36.76
	ATOM	1877	0	LEU A	241	27.302	35.509	51.858	1.00 36.97
	ATOM	1878	CB	LEU A	241	26.715	38.753	51.196	1.00 29.71
	ATOM	1879	CG	LEU A		25.283	39.289	51.237	1.00 37.68
25	ATOM	1880	CD1			25.174	40.552	50.389	1.00 35.76
35	ATOM	1881	CD2	LEU A		24.309	38.257	50.673	1.00 45.60
	MOTA	1882	N	LYS A		29.114	36.806	51.468	1.00 34.76
	MOTA	1883	CA	LYS A		29.908	35.702	50.972	1.00 33.62
	MOTA	1884	С	LYS A		30.072	34.690	52.039	1.00 32.18
40	MOTA	1885	0	LYS A		29.887	33.512	51.795	1.00 32.56
40	ATOM	1886	CB	LYS A		31.292	36.069	50.468	1.00 38.43
	ATOM	1887	CG	LYS A		31.406	36.263	48.961	1.00 49.23
	ATOM	1888	CD	LYS A		31.160	37.721	48.536	1.00 88.36
	ATOM	1889	CE	LYS A		32.371	38.456	47.943	1.00100.00
45	ATOM	1890	ΝZ	LYS A		32.033	39.411	46.862	1.00100.00
43	ATOM	1891	N	ILE A		30.428	35.154	53.227	1.00 30.87
	ATOM	1892	CA	ILE A		30.627	34.229	54.359	1.00 31.70
	ATOM	1893	C	ILE A		29.381	33.458	54.764	1.00 36.50
	ATOM	1894	0	ILE A		29.458	32.303	55.119	1.00 39.33
50	ATOM	1895	CB	ILE A		31.227	34.886	55.579	1.00 32.36
50	ATOM ATOM	1896 1897		ILE A		32.630	35.337	55.222	1.00 32.09
	ATOM	1898		ILE A		31.243 33.035	33.891	56.718	1.00 28.26
	ATOM	1899	N	ALA A			36.578 34.120	55.981	1.00 20.09 1.00 32.10
	ATOM	1900	CA	ALA A		28.237	33.519	54.708	1.00 32.10
55	ATOM	1901	C	ALA A		26.968		55.066	1.00 32.93
	ATOM	1901		ALA A		26.600	32.392	54.127	
	ATOM	1902	O CB	ALA A		26.074 25.858	31.358 34.576	54.546	1.00 36.88
	ATOM	1903	N	GLU A		26.890	34.576	55.123 52.846	1.00 34.02 1.00 31.20
	ATOM	1904	N CA	GLU A		26.890	32.617	52.846	1.00 31.20
60	ATOM	1905	CA	GLU A		27.360	30.354	52.092	1.00 29.26
~~	ATOM	1900	0	GLU A			29.276		
	ATOM	1907		GLU A		26.849		51.800 50.421	1.00 36.21 1.00 30.22
			CB			26.908	32.177		
	ATOM ATOM	1909	CG	GLU A		25.701	32.938	49.842	1.00 39.79
	VIOM	1910	CD	GLU A	243	26.026	33.564	48.529	1.00 51.91

	ATOM	1911	OE1	GLU A	245	26.9	45 34.351	48.358	1.00 34.19
	ATOM	1912		GLU A		25.2			1.00 47.48
	ATOM	1913	N	ASP A		28.5			1.00 32.29
	ATOM	1914	CA	ASP A		29.4			1.00 32.25
5	ATOM	1915	C	ASP A		28.8			1.00 35.47
,		1916		ASP A		28.8			1.00 33.47
	ATOM		0			-			
	ATOM	1917	CB	ASP A		30.8			1.00 33.17
	ATOM	1918	CG	ASP A		31.7			1.00 64.49
10	ATOM	1919		ASP A		31.9			1.00 67.15
10	ATOM	1920	OD2	ASP A		32.1			1.00 79.01
	ATOM	1921	N	LEU A	247	28.3	23 29.434		1.00 33.59
	ATOM	1922	CA	LEU A	247	27.7	31 28.868	56.334	1.00 36.70
	ATOM	1923	С	LEU A	247	26.3	55 28.208	56.083	1.00 35.92
	ATOM	1924	0	LEU A	247	26.0	60 27.110	56.551	1.00 30.77
15	ATOM	1925	СВ	LEU A		27.5			1.00 38.34
	ATOM	1926	CG	LEU A		28.7			1.00 44.30
	ATOM	1927		LEU A		29.3			1.00 48.20
	MOTA	1928	CD2	LEU A		29.7			1.00 35.25
									1.00 33.23
20	ATOM	1929	N	GLY A		25.4			
20	MOTA	1930	CA	GLY A		24.1			1.00 36.00
	ATOM	1931	С	GLY A		23.7			1.00 37.99
	ATOM	1932	0	GLY A		22.6			1.00 38.13
	ATOM	1933	N	GLY A	249	24.6	37 28.158	52.849	1.00 30.74
	ATOM	1934	CA	GLY A	249	24.2	03 27.852	51.526	1.00 30.15
25	ATOM	1935	С	GLY A	249	23.9	18 29,131	50.759	1.00 38.91
	ATOM	1936	0	GLY A	249	24.1	26 30.240	51.238	1.00 41.32
	ATOM	1937	N	PRO A		23.4			1.00 38.93
	ATOM	1938	CA	PRO A		23.1			1.00 38.03
	ATOM	1939	С	PRO A		22.2			1.00 42.17
30	ATOM	1940	ō	PRO A		21.2			1.00 45.20
	ATOM	1941	СВ	PRO A		22.6			1.00 39.18
	ATOM	1942	CG	PRO A		22.9			1.00 41.01
	ATOM	1943	CD	PRO A		23.3			1.00 38.57
									1.00 35.37
35	ATOM	1944	N	TYR A		22.4			
33	ATOM	1945	CA	TYR A		21.6			1.00 34.87
	ATOM	1946	С	TYR A		20.7			1.00 39.55
	ATOM	1947	0	TYR A		21.1			1.00 42.57
	ATOM	1948	СВ	TYR A		22.5			1.00 35.07
40	MOTA	1949	CG	TYR A		21.7			1.00 35.25
40	MOTA	1950	CD1	TYR A		21.3			1.00 33.14
	MOTA	1951	CD2	TYR A		21.2			1.00 37.98
	ATOM	1952	CE1	TYR A	251	20.5	75 37.341		1.00 28.05
	ATOM	1953	CE2	TYR A	251	20.4	92 37.967	48.443	1.00 40.05
	ATOM	1954	CZ	TYR A	251	20.1	60 38.213	49.777	1.00 42.84
45	ATOM	1955	OH	TYR A	251	19.4	09 39.307	50.112	1.00 39.70
	ATOM	1956	N	VAL A	252	19.5	10 33.102	47.914	1.00 32.21
	ATOM	1957	CA	VAL A		18.4			1.00 30.05
	ATOM	1958	С	VAL A		17.7			1.00 38.47
	ATOM	1959	ō	VAL A		17.0			1.00 40.65
50	ATOM	1960	СВ	VAL A		17.5			1.00 31.27
50	ATOM	1961		VAL A		18.3			1.00 28.15
						16.6			1.00 30.93
	ATOM	1962		VAL A					
	ATOM	1963	N	TRP A		17.8			1.00 32.44
55	MOTA	1964	CA	TRP A		17.0			1.00 30.93
55	ATOM	1965	С	TRP A		17.4			1.00 43.56
	ATOM	1966	0	TRP A		16.6			1.00 46.70
	ATOM	1967	CB	TRP A		16.8			1.00 29.65
	ATOM	1968	CG	TRP A	253	16.3	64 36.369	49.625	1.00 30.19
	ATOM	1969	CD1	TRP A	253	17.0	86 35.546	50.413	1.00 32.81
60	ATOM	1970	CD2	TRP A	253	14.9	89 36.110	49.913	1.00 29.63
	ATOM	1971		TRP A		16.2			1.00 30.69
	ATOM	1972		TRP A		14.9			1.00 31.50
	ATOM	1973		TRP A		13.7			1.00 30.18
	ATOM	1974		TRP A		13.7			1.00 30.31

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	MOTA	2039		LEU A		15.161	51.571	57.929	1.00 32.73
	ATOM	2040	CD2	LEU A		12.900	52.686	57.935	1.00 43.74
	ATOM	2041	N	PRO A	262	14.903	56.758	59.142	1.00 28.52
	ATOM	2042	CA	PRO A	262	14.894	57.870	60.047	1.00 28.50
5	ATOM	2043	C	PRO A		15.152	57.294	61.432	1.00 35.36
•	ATOM	2044	ŏ	PRO A		14.866	56.124	61.683	1.00 34.52
	ATOM	2045	CB	PRO A		13.512	58.512	59.971	1.00 29.19
	ATOM	2046	CG	PRO A	262	12.707	57.719	58.964	1.00 34.34
	ATOM	2047	CD	PRO A	262	13.581	56.575	58.492	1.00 30.63
10	ATOM	2048	N	PRO A	263	15.706	58.105	62.327	1.00 31.50
	ATOM	2049	CA	PRO A		16.060	57.657	63.673	1.00 28.77
	ATOM	2050	c	PRO A		14.966	57.021	64.493	1.00 29.15
	ATOM	2051	0	PRO A		15.256	56.335	65.434	1.00 26.36
1.5	ATOM	2052	CB	PRO A		16.652	58.867	64.392	1.00 29.16
15	ATOM	2053	CG	PRO A	263	16.851	59.954	63.335	1.00 31.55
	MOTA	2054	CD	PRO A	263	15.994	59.558	62.138	1.00 29.17
	ATOM	2055	N	SER A	264	13.712	57.258	64.143	1.00 33.87
	ATOM	2056	CA	SER A		12.578	56.703	64.864	1.00 33.81
		2057					55.223		
20	MOTA		С	SER A		12.403		64.604	1.00 37.36
20	MOTA	2058	0	SER A		11.529	54.570	65.201	1.00 39.61
	ATOM	2059	CB	SER A	264	11.280	57.423	64.576	1.00 35.61
	ATOM	2060	OG	SER A	264	10.955	57.276	63.201	1.00 53.45
	ATOM	2061	N	PHE A	265	13.213	54.684	63.710	1.00 29.00
	ATOM	2062	CA	PHE A		13.136	53.256	63.453	1.00 28.56
25	ATOM	2063	C	PHE A		13.260	52.491	64.787	1.00 28.49
23	MOTA								
		2064	0	PHE A		14.208	52.675	65.533	1.00 27.36
	ATOM	2065	CB	PHE A		14.200	52.833	62.454	1.00 31.40
	ATOM	2066	CG	PHE A		13.875	51.458	62.028	1.00 34.51
	ATOM	2067	CD1	PHE A	265	12.601	51.174	61.543	1.00 35.11
30	MOTA	2068	CD2	PHE A	265	14.814	50.435	62.156	1.00 38.94
	ATOM	2069		PHE A		12.282	49.876	61.154	1.00 37.42
	ATOM	2070		PHE A		14.511	49.131	61.772	1.00 42.65
			CZ					61.274	
	MOTA	2071		PHE A		13.236	48.860		1.00 40.14
25	ATOM	2072	N	PRO A		12.272	51.650	65.128	1.00 24.06
35	ATOM	2073	CA	PRO A	266	12.249	50.945	66.419	1.00 20.62
	ATOM	2074	C	PRO A	266	13.231	49.794	66.701	1.00 29.34
	MOTA	2075	0	PRO A	266	13.343	49.364	67.847	1.00 28.17
	MOTA	2076	CB	PRO A	266	10.808	50.463	66.593	1.00 19.16
	ATOM	2077	CG	PRO A		10.076	50.686	65.281	1.00 21.07
40	ATOM	2078	CD	PRO A		11.046	51.355	64.325	1.00 19.44
10									
	ATOM	2079	N	TYR A		13.922	49.280	65.676	1.00 27.23
	MOTA	2080	CA	TYR A		14.849	48.160	65.817	1.00 25.74
	ATOM	2081	С	TYR A	267	16.181	48.454	65.189	1.00 32.57
	MOTA	2082	0	TYR A	267	16.281	49.316	64.324	1.00 32.48
45	MOTA	2083	CB	TYR A	267	14.298	46.903	65.121	1.00 25.07
	ATOM	2084	CG	TYR A		12.968	46.502	65.674	1.00 24.45
		2085				12.915	45.765	66.856	1.00 27.05
	ATOM			TYR A				65.037	
	ATOM	2086		TYR A		11.776	46.851		1.00 22.15
50	MOTA	2087		TYR A		11.697	45.387	67.419	1.00 25.01
50	ATOM	2088	CE2	TYR A	267	10.548	46.496	65.596	1.00 19.09
	ATOM	2089	cz	TYR A	267	10.510	45.767	66.786	1.00 17.98
	ATOM	2090	OH	TYR A	267	9.302	45.416	67.353	1.00 19.51
	MOTA	2091	N	GLY A		17.196	47.698	65.627	1.00 30.22
	ATOM	2092	CA	GLY A		18.547	47.826	65.114	1.00 27.29
55									
25	ATOM	2093	C	GLY A		18.485	47.620	63.614	1.00 29.82
	MOTA	2094	0	GLY A		19.136	48.297	62.836	1.00 32.99
	MOTA	2095	N	GLY A	269	17.637	46.676	63.228	1.00 23.19
	ATOM	2096	CA	GLY A	269	17.393	46.320	61.853	1.00 21.62
	ATOM	2097	С	GLY A		16.187	45.402	61.777	1.00 27.53
60	ATOM	2098	ŏ	GLY A		15.681	44.948	62.820	1.00 20.14
	ATOM	2099						60.528	1.00 27.81
			N	MET A		15.735	45.154		
	ATOM	2100	CA	MET A		14.615	44.267	60.176	1.00 25.61
	ATOM	2101	С	MET A		14.956	43.585	58.874	1.00 33.56
	ATOM	2102	0	MET A	270	15.221	44.247	57.867	1.00 34.67

	ATOM	2103	CB	MET	Α	270	13.247	44.936	60.028	1.00	26.07
	ATOM	2104	CG	MET	Α	270	12.195	43.937	59.602	1.00	28.81
	ATOM	2105	SD	MET			11.875	42.742	60.929	1.00	37.39
	ATOM	2106	CE	MET			10.720	41.621	60.082	1.00	35.30
5	ATOM	2107	N	GLU			14.995	42.263	58.904	1.00	32.20
9											
	ATOM	2108	CA	GLU			15.393	41.459	57.753	1.00	33.32
	MOTA	2109	С	GLU			14.419	41.382	56.567	1.00	40.86
	ATOM	2110	0	GLU			14.087	40.285	56.107	1.00	42.02
10	ATOM	2111	CB	GLU	Α	271	15.802	40.054	58.230	1.00	35.05
10	ATOM	2112	CG	GLU	Α	271	14.607	39.218	58.760	1.00	33.55
	ATOM	2113	CD	GLU	Α	271	14.291	39.428	60.219	1.00	25.52
	ATOM	2114	OE1	GLU	Α	271	14.586	40.436	60.844	1.00	37.23
	ATOM	2115	OE2	GLU			13.699	38.393	60.757	1.00	25.86
	ATOM	2116	N	ASN			13.978	42.535	56.052	1.00	
15	ATOM	2117	CA	ASN		-	13.057	42.544	54.928	1.00	
15	ATOM	2118									
			C	ASN			13.787	42.048	53.702	1.00	
	ATOM	2119	0	ASN			14.811	42.613	53.351	1.00	33.64
	MOTA	2120	CB	ASN			12.441	43.947	54.719	1.00	30.65
20	MOTA	2121	CG	ASN	A	272	11.667	44.453	55.935	1.00	42.50
20	ATOM	2122	OD1	ASN	Α	272	11.908	45.554	56.475	1.00	47.09
	ATOM	2123	ND2	ASN	Α	272	10.716	43.661	56.371	1.00	24.31
	ATOM	2124	N	PRO	Α	273	13.281	40.983	53.078	1.00	
	ATOM	2125	CA	PRO			13.935	40.373	51.910	1.00	
	ATOM	2126	C	PRO			14.303	41.345	50.819	1.00	30.43
25	ATOM	2127					13.457				
23			0	PRO				42.089	50.372	1.00	31.65
	ATOM	2128	CB	PRO			12.991	39.305	51.381	1.00	30.16
	ATOM	2129	CG	PRO			11.829	39.237	52.365	1.00	
	MOTA	2130	CD	PRO			11.927	40.440	53.310	1.00	30.84
20	ATOM	2131	N	CYS			15.571	41.333	50.431	1.00	27.40
30	MOTA	2132	CA	CYS	Α	274	16.069	42.206	49.373	1.00	28.17
	MOTA	2133	С	CYS	Α	274	16.327	43.604	49.860	1.00	27.35
	MOTA	2134	0	CYS	Α	274	17.114	44.345	49.248	1.00	28.53
	MOTA	2135	СВ	CYS			15.121	42.347	48.145	1.00	32.00
	ATOM	2136	SG	CYS			14.659	40.798	47.340	1.00	38.42
35	ATOM	2137	N	LEU			15.658	43.972	50.947	1.00	
	ATOM	2138	CA	LEU			15.789	45.315	51.535	1.00	
	ATOM	2139	C	LEU						1	
							15.857	45.279	53.059	1.00	32.52
	MOTA	2140	0	LEU			14.859	45.250	53.772	1.00	32.44
40	ATOM	2141	CB	LEU			14.657	46.253	51.005	1.00	
40·	MOTA	2142	CG	LEU			14.847	47.735	51.239	1.00	26.78
	ATOM	2143		LEU			16.191	48.183	50.698	1.00	21.90
	ATOM	2144	CD2	LEU	Α	275	13.712	48.478	50.554	1.00	31.48
	ATOM	2145	N	THR	Α	276	17.062	45.244	53.570	1.00	29.67
	ATOM	2146	CA	THR	Α	276	17.225	45.198	54.996	1.00	30.47
45	ATOM	2147	С	THR	Α	276	17.120	46.624	55.597	1.00	
	ATOM	2148	Ō	THR			17.766	47.588	55.129		31.01
	ATOM	2149	СВ	THR			18.508	44.397	55.387	1.00	
	ATOM	2150		THR			18.224	43.030			42.01
									55.512		
50	ATOM	2151		THR			19.124	44.835	56.694	1.00	
50	ATOM	2152	N	PHE			16.280	46.759	56.622		27.69
	ATOM	2153	CA	PHE			16.164	48.034	57.274	1.00	28.92
	ATOM	2154	С	PHE			17.184	48.065	58.403	1.00	36.07
	ATOM	2155	0	PHE	Α	277	17.337	47.088	59.131	1.00	34.57
	ATOM	2156	CB	PHE	Α	277	14.791	48.265	57.901	1.00	30.17
55	ATOM	2157	CG	PHE	Α	277	13.774	48.458	56.848	1.00	
	ATOM	2158	CD1	PHE			14.011	47.966	55.568	1.00	
	ATOM	2159		PHE			12.573	49.114	57.105	1.00	
	ATOM	2160		PHE							
							13.072	48.135	54.552	1.00	
60	ATOM	2161		PHE			11.619	49.276	56.101		32.26
UU	ATOM	2162	CZ	PHE			11.862	48.772	54.824	1.00	
	ATOM	2163	N	VAL			17.864	49.186	58.562	1.00	
	MOTA	2164	CA	VAL			18.839	49.338	59.614	1.00	32.66
	MOTA	2165	С	VAL	A	278	18.696	50.698	60.248	1.00	37.01
	ATOM	2166	0	VAL	Α	278	18.251	51.635	59.599	1.00	37.16

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	ATOM	2167	CB	VAL			20.246	49.088	59.109		36.51
	ATOM	2168	CG1	VAL	Α	278	20.173	47.967	58.086	1.00	37.40
	ATOM	2169	CG2	VAL	Α	278	20.791	50.356	58.444	1.00	34.87
	MOTA	2170	N	THR	Α	279	19.066	50.778	61.515	1.00	32.36
5	MOTA	2171	CA	THR	A	279	18.948	51.994	62.264	1.00	31.03
	ATOM	2172	С	THR	А	279	20.121	52.883	62.035		37.42
	ATOM	2173	ō	THR			21.243	52.397	61.920		39.87
	ATOM	2174	СВ	THR			18.885	51.695	63.759		31.39
	ATOM	2175		THR			19.110	52.895			
10	ATOM	2176		THR					64.472		34.21
10							19.989	50.706	64.083		23.69
	ATOM	2177	N	PRO			19.845	54.187	62.000		30.07
	ATOM	2178	CA	PRO			20.903	55.132	61.802		27.00
	MOTA	2179	С	PRO	A	280	21.823	55.110	63.005	1.00	30.60
	ATOM	2180	0	PRO	A	280	22.951	55.588	62.934	1.00	30.20
15	ATOM	2181	CB	PRO	Α	280	20.249	56.497	61.601	1.00	26.23
	ATOM	2182	CG	PRO	A	280	18.769	56.337	61.889	1.00	28.07
	ATOM	2183	CD	PRO	A	280	18.499	54.848	61.984	1.00	26.11
	ATOM	2184	N	THR			21.348	54.509	64.112		27.82
	ATOM	2185	CA	THR			22.199	54.426	65.302		27.48
20	ATOM	2186	C	THR			23.372	53.523	65.073		31.37
	ATOM	2187	ŏ	THR			24.226	53.385	65.944		31.93
	ATOM	2188	СВ								
				THR			21.499	54.016	66.601		21.45
	MOTA	2189	OG1				21.021	52.681	66.524	1.00	
25	ATOM	2190	CG2				20.388	54.994	66.874	1.00	9.89
23	ATOM	2191	N	LEU			23.378	52.881	63.913		25.29
	MOTA	2192	CA	LEU			24.473	51.993	63.586	1.00	24.04
	ATOM	2193	С	LEU	Α	282	25.682	52.790	63.049	1.00	34.74
	ATOM	2194	0	LEU	Α	282	26.787	52.279	62.884	1.00	34.84
	MOTA	2195	CB	LEU .	Α	282	24.063	51.038	62.464	1.00	22.14
30	MOTA	2196	CG	LEU .	Α	282	23.104	49.916	62.819	1.00	26.88
	ATOM	2197	CD1	LEU .			23.312	48.809	61.791		27.77
	ATOM	2198		LEU .			23.322	49.404	64.249		21.75
	ATOM	2199	N	LEU			25.465	54.063	62.744	1.00	
	ATOM	2200	CA	LEU			26.501	54.903	62.159	1.00	31.43
35	ATOM	2201	C.	LEU			27.659	55.324	63.055	1.00	41.94
	ATOM	2202	Ö	LEU .			27.907	56.525	63.196		49.19
	ATOM	2203	СВ	LEU			25.861	56.117	61.418		
	ATOM	2204	CG	LEU .							29.55
	ATOM	2205					24.720	55.661	60.488		32.94
40				LEU .			23.933	56.811	59.869		33.48
40	ATOM	2206		LEU .			25.232	54.716	59.409		28.39
	ATOM	2207	N	ALA .			28.387	54.370	63.638		33.18
	ATOM	2208	CA	ALA .			29.488	54.728	64.532	1.00	30.20
	ATOM	2209	С	ALA .	Α	284	30.655	55.492	63.922	1.00	31.97
. ~	ATOM	2210	0	ALA .			31.411	56.165	64.642	1.00	31.40
45	ATOM	2211	CB	ALA .	Α	284	29.973	53.544	65.336	1.00	29.60
	ATOM	2212	N	GLY .	Α	285	30.801	55.371	62.605	1.00	27.10
	ATOM	2213	CA	GLY .	Α	285	31.882	56.018	61.867		29.77
	ATOM	2214	С	GLY .	Α	285	33.174	55.194	61.910	1.00	39.25
	ATOM	2215	0	GLY .			34.264	55.649	61.544		41.21
50	ATOM	2216	N	ASP .			33.022	53.951	62.363		34.57
	ATOM	2217	CA	ASP .			34.144	53.057	62.473		32.57
	ATOM	2218	c c	ASP			33.805	51.625	62.130		31.59
	ATOM	2219	Õ	ASP I							
	ATOM	2220	СВ				34.609	50.743	62.325		29.27
55				ASP A			34.812	53.163	63.860		34.65
55	ATOM	2221	CG	ASP 2			34.081	52.447	64.945		41.93
	ATOM	2222		ASP A			33.008	51.893	64.765		45.21
	ATOM	2223		ASP A			34.714	52.492	66.087	1.00	35.67
	MOTA	2224	N	LYS A			32.590	51.395	61.641	1.00	29.46
	MOTA	2225	CA	LYS Z			32.199	50.038	61.272	1.00	31.62
60	ATOM	2226	С	LYS 2	Ą	287	31.976	49.060	62.437	1.00	37.91
	ATOM	2227	0	LYS Z			31.761	47.879	62.240		37.91
	MOTA	2228	CB	LYS Z			33.215	49.447	60.304		32.17
	ATOM	2229	CG	LYS A			33.510	50.358	59.119		51.60
	ATOM	2230	CD	LYS A			33.960	49.601	57.877		50.74
					•	,	55.500	15.001	31.077	1.00	JU. 13

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	ATOM	2295	СВ	GLU	А	296	20.046	42.203	58.728	1.00	24.55
	ATOM	2296	CG	GLU			19.892	43.148	59.936		23.16
	ATOM	2297	CD	GLU			18.939	42.632	60.991		53.50
5	ATOM	2298		GLU			17.964	41.956	60.700		23.99
3	ATOM ATOM	2299 2300	OE2 N	GLU ILE			19.237 21.803	43.006 39.745	62.233 57.675		32.77 25.37
	ATOM	2301	CA	ILE			22.195	38.870	56.599		22.64
	ATOM	2302	c .	ILE			21.812	37.445	56.859		27.47
	MOTA	2303	0	ILE			21.175	36.799	56.048	1.00	26.25
10	ATOM	2304	CB	ILE			23.672	38.963	56.302		24.19
	ATOM	2305		ILE			23.920	40.140	55.355		25.28
	ATOM	2306	CG2	ILE			24.079	37.686	55.626		20.77
	ATOM	2307	CD1				25.325	40.705	55.435 58.012		16.26 28.23
15	ATOM ATOM	2308 2309	N CA	SER SER			22.226 21.939	36.947 35.569	58.377		25.04
1.7	ATOM	2310	C	SER			20.467	35.235	58.298		26.21
	ATOM	2311	ō	SER			20.118	34.097	58.000		26.30
	ATOM	2312	СВ	SER			22.520	35.209	59.714	1.00	27.82
	MOTA	2313	OG	SER	Α	298	23.890	35.552	59.714		35.98
20	MOTA	2314	N	HIS			19.599	36.230	58.562		22.17
	ATOM	2315	CA	HIS			18.205	36.092	58.719		22.77
	ATOM	2316	С	HIS			17.614	35.710	57.387		29.10
	ATOM ATOM	2317 2318	O CB	HIS HIS			16.553 17.662	35.162 37.432	57.290 59.200		31.50 24.67
25	MOTA	2319	CG	HIS			17.052	37.338	60.602		29.10
	ATOM	2320		HIS			16.190	36.368	60.975		30.70
	MOTA	2321	CD2	HIS	Α	299	17.196	38.233	61.667	1.00	32.39
	MOTA	2322	CE1	HIS	Α	299	15.811	36.675	62.233		30.41
20	ATOM	2323		HIS			16.397	37.783	62.674		31.74
30	ATOM	2324	N	SER			18.356	36.048	56.315		23.31
	ATOM ATOM	2325 2326	CA C	SER SER			17.942 17.879	35.581 34.050	55.010 54.977		24.24 34.13
	ATOM	2327	Ö	SER			17.075	33.463	54.305		33.28
	ATOM	2328	СВ	SER			18.941	36.092	53.965		27.31
35	ATOM	2329	OG	SER			18.947	37.519	53.962	1.00	49.96
	MOTA	2330	N	TRP			18.773	33.411	55.752		33.09
	MOTA	2331	CA	TRP			18.702	31.969	55.829		31.84
	ATOM	2332	C	TRP			17.740	31.511	56.895		32.15
40	ATOM ATOM	2333 2334	O CB	TRP TRP			16.764 20.095	30.876 31.429	56.620 56.082		27.05 30.16
••	MOTA	2335	CG	TRP			20.791	31.421	54.801		32.02
	ATOM	2336		TRP			20.787	30.393	53.859		35.05
	ATOM	2337	CD2	TRP	Α	301	21.496	32.520	54.202	1.00	30.84
4.5	ATOM	2338	NE1				21.415	30.732	52.722		33.29
45	MOTA	2339		TRP			21.886	32.112	52.921		33.44
	ATOM	2340 2341		TRP TRP			21.811 22.577	33.790 32.970	54.631 52.108		32.65 32.21
	ATOM ATOM	2341		TRP			22.503	34.652	53.812		36.10
	ATOM	2343		TRP			22.888	34.239	52.544		36.83
50	ATOM	2344	N	THR			18.042	31.864	58.146		31.77
	ATOM	2345	CA	THR	Α	302	17.125	31.488	59.215	1.00	33.55
	MOTA	2346	С	THR			16.276	32.690	59.695		36.35
	ATOM	2347	0	THR			16.759	33.590	60.330		36.56
55	ATOM	2348	CB	THR			17.963	30.920	60.366 60.639		31.04
<i>33</i>	ATOM ATOM	2349 2350		THR			19.047 18.544	31.807 29.555	59.967		17.10
	ATOM	2351	N	GLY			15.053	32.418	59.250		25.28
	ATOM	2352	CA	GLY			13.908	33.236	59.483		21.59
	ATOM	2353	С	GLY	Α	303	13.202	33.382	58.163	1.00	26.99
60	ATOM	2354	0	GLY			12.040	33.040	57.994		26.18
	ATOM	2355	N	ASN			13.936	33.891	57.195		28.05
	ATOM	2356	CA	ASN			13.363	34.101	55.875		28.17
	ATOM ATOM	2357 2358	С О	ASN ASN			13.141 12.118	32.839 32.715	55.056 54.415		28.99
	ATOM	2330	0	NON	л	204	12.110	32.113	27.713	1.00	23.07

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						102				
	MOTA	2359	СВ	ASN A	304	14.091	35.176	55.047	1.00 23.55	
	MOTA	2360	CG	ASN A		14.133	36.499	55.757	1.00 37.80	
	MOTA	2361		ASN A		13.630	36.613	56.892	1.00 20.66	
5	ATOM ATOM	2362 2363	NDZ N	ASN A		14.752 14.110	37.488 31.919	55.093 55.055	1.00 24.17 1.00 27.24	
•	ATOM	2364	CA	LEU A		13.987	30.677	54.306	1.00 27.24	
	ATOM	2365	C	LEU A		13.218	29.665	55.121	1.00 31.29	
	ATOM	2366	0	LEU A		12.235	29.051	54.678	1.00 29.23	
10	ATOM	2367	CB	LEU A		15.371	30.119	53.967	1.00 27.62	
10	MOTA MOTA	2368 2369	CG	LEU A		15.805 17.289	30.593 30.293	52.603 52.412	1.00 32.23 1.00 28.91	
	ATOM	2370		LEU A		14.951	29.887	51.549	1.00 28.91	
	ATOM	2371	N	VAL A		13.711	29.528	56.347	1.00 27.75	
	MOTA	2372	CA	VAL A		13.134	28.652	57.327	1.00 29.99	
15	MOTA	2373	С	VAL A		12.578	29.527	58.403	1.00 31.78	
	ATOM	2374	0	VAL A		13.306	30.217	59.110	1.00 28.32	
	MOTA MOTA	2375 2376	CB CG3	VAL A		14.092 15.479	27.593 28.180	57.827 57.969	1.00 37.24 1.00 38.36	
	MOTA	2377		VAL A		13.602	27.107	59.164	1.00 37.56	
20	MOTA	2378	N	THR A		11.259	29.517	58.440	1.00 29.40	
	MOTA	2379	CA	THR A		10.499	30.358	59.320	1.00 28.14	
	MOTA	2380	C	THR A		9.729	29.712	60.446	1.00 34.06	
	ATOM ATOM	2381 2382	O CB	THR A		9.029 9.474	28.706 31.115	60.277 58.460	1.00 36.72 1.00 23.03	
25	ATOM	2382		THR A		10.124	31.811	57.422	1.00 28.56	
	ATOM	2384		THR A		8.665	32.068	59.336	1.00 12.55	
	ATOM	2385	N	ASN A	308	9.802	30.347	61.608	1.00 29.29	
	ATOM	2386	CA	ASN A		9.042	29.862	62.724	1.00 27.82	
30	ATOM	2387	C	ASN A		7.576	29.716	62.234	1.00 31.42	
30	ATOM ATOM	2388 2389	O CB	ASN A		7.072 9.19 <b>4</b>	30.535 30.790	61.450 63.972	1.00 32.96 1.00 23.57	
	ATOM	2390	CG	ASN A		8.935	32.298	63.745	1.00 30.38	
	ATOM	2391	OD1	ASN A		9.505	33.190	64.400	1.00 23.70	
35	ATOM	2392		ASN A		8.056	32.608	62.818	1.00 41.34	
33	ATOM ATOM	2393 2394	n Ca	LYS A		6.890 5.502	28.658 28.433	62.640 62.230	1.00 24.10 1.00 23.40	
	ATOM	2395	C	LYS A		4.514	29.380	62.230	1.00 23.40	
	ATOM	2396	Ö	LYS A		3.430	29.756	62.474	1.00 22.88	
40	MOTA	2397	CB	LYS A		5.151	26.975	62.459	1.00 24.26	
40	MOTA	2398	CG	LYS F		4.036	26.478	61.555	1.00 28.57	
	ATOM ATOM	2399 2 <b>4</b> 00	CE	LYS A		3.543 3.475	25.075 24.112	61.924 60.739	1.00 38.25 1.00 78.39	
	MOTA	2401	NZ	LYS A		4.389	22.953	60.739	1.00 78.39	
	ATOM	2402	N	THR A		4.917	29.744	64.179	1.00 23.46	
45	ATOM	2403	CA	THR A		4.179	30.616	65.037	1.00 22.98	
	ATOM	2404	C	THR A		5.142	31.336	65.922	1.00 31.43	•
	ATOM ATOM	2405 2406	O CB	THR A		6.223 3.104	30.836	66.230	1.00 31.51 1.00 34.01	
	ATOM	2407		THR A		3.684	29.917 29.148	65.871 66.945	1.00 34.01	
50	ATOM	2408		THR A		2.174	29.114	64.956	1.00 24.58	
	MOTA	2409	N	TRP A		4.733	32.527	66.299	1.00 29.82	
	ATOM	2410	CA	TRP A		5.559	33.371	67.120	1.00 30.49	
	ATOM ATOM	2411 2412	С 0	TRP A		6.044	32.692	68.381	1.00 26.99 1.00 25.15	
55	ATOM	2412	СВ	TRP A		7.015 4.933	33.101 34.768	68.971 67.320	1.00 23.13	
	ATOM	2414	CG	TRP A		4.706	35.412	66.001	1.00 30.63	
	ATOM	2415		TRP A		3.514	35.785	65.490	1.00 32.07	
	ATOM	2416		TRP A		5.705	35.723	65.008	1.00 31.31	
60	ATOM	2417		TRP A		3.703	36.335	64.250	1.00 29.97	
UU	ATOM ATOM	2418 2419		TRP F		5.033 7.099	36.317 35.586	63.931 64.943	1.00 32.88 1.00 31.44	
	MOTA	2419		TRP A		5.721	36.771	62.804	1.00 31.44	
	MOTA	2421		TRP A		7.779	36.059	63.848	1.00 30.39	
	MOTA	2422		TRP A		7.089	36.639	62.789	1.00 30.58	

	MOTA	2423	N	ASP A	312	5.366	31.632	68.770	1.00 27.36
	ATOM	2424	CA	ASP A	312	5.757	30.868	69.950	1.00 27.38
	MOTA	2425	С	ASP A	312	7.149	30.213	69.757	1.00 31.25
	ATOM	2426	0	ASP A	312	7.826	29.802	70.718	1.00 27.07
5	MOTA	2427	CB	ASP A	312	4.697	29.750	70.217	1.00 25.96
	ATOM	2428	CG	ASP A	312	3.432	30.230	70.872	1.00 27.42
	ATOM	2429	OD1	ASP A	312	3.197	31.396	71.102	1.00 28.97
	MOTA	2430	OD2	ASP A	312	2.623	29.265	71.208	1.00 29.33
	MOTA	2431	N	HIS A	313	7.562	30.089	68.487	1.00 25.04
10	MOTA	2432	CA	HIS A	313	8.820	29.454	68.164	1.00 23.48
	ATOM	2433	С	HIS A	313	9.864	30.452	67.737	1.00 25.38
	MOTA	2434	0	HIS A	313	10.929	30.139	67.214	1.00 29.97
	ATOM	2435	CB	HIS A	313	8.588	28.245	67.209	1.00 25.00
	MOTA	2436	CG	HIS A	313	7.641	27.230	67.837	1.00 29.77
15	ATOM	2437	ND1	HIS A	313	8.087	26,183	68.635	1.00 31.37
	ATOM	2438	CD2	HIS A	313	6.279	27.152	67.808	1.00 31.31
	ATOM	2439	CE1	HIS A	313	7.015	25.509	69.039	1.00 28.91
	ATOM	2440	NE2	HIS A	313	5.913	26.066	68.559	1.00 29.40
	ATOM	2441	N	PHE A	314	9.521	31.682	68.005	1.00 17.43
20	ATOM	2442	CA	PHE A	314	10.345	32.810	67.701	1.00 17.16
	ATOM	2443	C	PHE A	314	11.852	32.523	67.812	1.00 26.01
	ATOM	2444	0	PHE A	314	12.669	32.922	66.963	1.00 30.40
	MOTA	2445	CB	PHE A	314	9.908	34.056	68.517	1.00 18.63
	ATOM	2446	CG	PHE A	314	10.592	35.351	68.113	1.00 20.10
25	MOTA	2447	CD1	PHE A	314	10.712	35.697	66.768	1.00 21.80
	ATOM	2448	CD2	PHE A	314	11.129	36.214	69.070	1.00 22.60
	MOTA	2449	CE1	PHE A	314	11.337	36.890	66.400	1.00 24.74
	ATOM	2450	CE2	PHE A	314	11.750	37.416	68.716	1.00 27.24
	MOTA	2451	CZ	PHE A	314	11.857	37.756	67.368	1.00 24.97
30	ATOM	2452	N	TRP A	315	12.235	31.828	68.861	1.00 19.66
	MOTA	2453	CA	TRP A	315	13.639	31.541	69.068	1.00 17.87
	ATOM	2454	С	TRP A	315	14.292	30.775	67.953	1.00 28.55
	ATOM	2455	0	TRP A	315	15.518	30.769	67.830	1.00 29.23
~~	ATOM	2456	CB	TRP A		13.860	30.842	70.362	1.00 16.03
35	ATOM	2457	CG	TRP A	315	13.613	29.408	70.161	1.00 19.64
	ATOM	2458		TRP A		12.428	28.787	70.247	1.00 22.39
	ATOM	2459		TRP A		14.599	28.430	69.876	1.00 21.70
	ATOM	2460		TRP A		12.5 <del>9</del> 7	27.457	70.033	1.00 24.22
40	ATOM	2461		TRP A		13.934	27.205	69.801	1.00 27.96
40	ATOM	2462		TRP A		15.976	28.481	69.681	1.00 22.89
	ATOM	2463		TRP A		14.631	26.018	69.547	1.00 27.76
	ATOM	2464		TRP A		16.651	27.321	69.421	1.00 23.16
	ATOM	2465		TRP A		15.991	26.108	69.341	1.00 23.94
15	ATOM	2466	N	LEU A		13.488	30.114	67.144	1.00 26.33
45	MOTA	2467	CA	LEU A		14.092	29.400	66.067	1.00 25.44
	ATOM	2468	С	LEU A			30.443		1.00 33.21
	MOTA	2469	0	LEU A		15.737	30.252	64.530	1.00 37.80
	ATOM	2470	CB	LEU A		13.050	28.567	65.311	1.00 24.82
50	MOTA	2471	CG	LEU A		12.663	27.242	65.956	1.00 27.62
50	ATOM	2472		LEU A		11.574	26.552	65.106	1.00 22.30
	MOTA	2473		LEU A		13.897	26.344	66.097	1.00 27.03
	ATOM	2474	N	ASN A		13.931	31.555	64.997	1.00 20.55
	MOTA	2475	CA	ASN A		14.354	32.624	64.115	1.00 19.34
55	MOTA	2476	C	ASN A		15.603	33.333	64.531	1.00 30.38
<i>J J</i>	ATOM	2477	0	ASN A		16.553	33.425	63.766	1.00 32.04
	ATOM	2478	CB	ASN A		13.273	33.682	63.838	1.00 14.82
	ATOM	2479	CG	ASN A		12.330	33.177	62.793	1.00 31.14
	ATOM	2480		ASN A		12.151	31.966	62.657	1.00 38.42
60	ATOM	2481		ASN A		11.724	34.074	62.049	1.00 17.34
50	ATOM	2482	N	GLU A		15.562	33.870	65.750	1.00 26.15
	ATOM	2483	CA	GLU A		16.624	34.648	66.358	1.00 20.23
	ATOM	2484	C	GLU A		17.860	33.884	66.816	1.00 23.53
	ATOM	2485	O	GLU A		19.006	34.273	66.554	1.00 26.34
	MOTA	2486	СВ	GLU A	210	15.998	35.484	67.456	1.00 19.11

	ATOM	2487	CG	GLU A 318	14.999	36.480	66.800	1.00 24.06
	ATOM	2488	CD	GLU A 318	15.615	37.391	65.758	1.00 40.32
	ATOM	2489		GLU A 318		37.559	65.612	
								1.00 21.24
•	MOTA	2490		GLU A 318		38.025	65.062	1.00 24.23
5	MOTA	2491	N	GLY A 319	17.621	32.782	67.494	1.00 17.17
	MOTA	2492	CA	<b>GLY A 319</b>	18.681	31.955	68.016	1.00 15.31
	ATOM	2493	C	GLY A 319		31.601	66.953	1.00 24.07
	ATOM	2494	0	GLY A 319		31.897	67.080	1.00 28.47
4.0	MOTA	2495	N	HIS A 320	19.165	30.956	65.907	1.00 20.24
10	MOTA	2496	CA	HIS A 320	19.977	30.556	64.790	1.00 20.13
	MOTA	2497	С	HIS A 320		31.759	64.142	1.00 24.97
	ATOM	2498	0	HIS A 320		31.700	63.739	1.00 23.54
	MOTA	2499	CB	HIS A 320	19.143	29.737	63.791	1.00 20.57
	ATOM	2500	CG	HIS A 320	18.662	28.426	64.349	1.00 22.57
15	ATOM	2501	ND1	HIS A 320		28.332	65.058	1.00 22.98
	ATOM	2502		HIS A 320		27.176	64.286	1.00 19.52
	ATOM	2503		HIS A 320		27.046	65.385	1.00 19.18
	MOTA	2504	NE2	HIS A 320	18.368	26.329	64.952	1.00 18.12
	ATOM	2505	N	THR A 321		32.875	64.053	1.00 21.61
20	ATOM	2506	CA					
20				THR A 321		34.056	63.478	1.00 22.16
	ATOM	2507	С	THR A 321	21.697	34.552	64.342	1.00 27.47
	ATOM	2508	0	THR A 321	22.789	34.825	63.836	1.00 26.64
	ATOM	2509	CB	THR A 321		35.097	63,113	1.00 27.88
	ATOM	2510	OG1	THR A 321				
25						34.392	62.523	1.00 27.92
23	MOTA	2511	CG2	THR A 321		36.088	62.087	1.00 18.05
	ATOM	2512	N	VAL A 322	21.496	34.634	65.659	1.00 21.90
	ATOM	2513	CA	VAL A 322	22.610	35.054	66.470	1.00 19.44
	ATOM	2514	С	VAL A 322		34.071	66.285	1.00 24.43
20	ATOM	2515	0	VAL A 322		34.414	66.188	1.00 21.48
30	ATOM	2516	CB	VAL A 322	22.218	35.185	67.928	1.00 20.92
	ATOM	2517	CG1	VAL A 322	23.406	35.644	68.772	1.00 18.37
	ATOM	2518	CG2	VAL A 322		36.200	68.048	1.00 20.01
	ATOM	2519	N	TYR A 323		32.811		
							66.197	1.00 27.08
25	MOTA	2520	CA	TYR A 323		31.803	66.013	1.00 26.26
35	ATOM	2521	С	TYR A 323	25.222	32.036	64.728	1.00 28.26
	ATOM	2522	0	TYR A 323		31.894	64.643	1.00 27.51
	ATOM	2523	CB	TYR A 323		30.407	66.020	1.00 25.74
	ATOM	2524	CG	TYR A 323		29.341	65.987	1.00 26.66
40	MOTA	2525	CD1			28.957	67.150	1.00 29.09
40	ATOM	2526	CD2	TYR A 323	25.199	28.713	64.789	1.00 24.52
	MOTA	2527		<b>TYR A 323</b>	26.530	27.974	67.157	1.00 22.56
	ATOM	2528	CE2	TYR A 323		27.722	64.770	
								1.00 25.31
	ATOM	2529	CZ	TYR A 323		27.370	65.944	1.00 29.19
	ATOM	2530	oh	TYR A 323	27.823	26.434	65.895	1.00 27.51
45	ATOM	2531	N	<b>LEU A 324</b>	24.497	32.408	63.702	1.00 24.82
	ATOM	2532	CA	LEU A 324	25.135			
	ATOM	2533	C					
				LEU A 324	25.832	33.952	62.417	1.00 30.92
	MOTA	2534	0	LEU A 324	26.903	34.045	61.851	1.00 33.76
	ATOM	2535	CB	LEU A 324	24.176	32.537	61.235	1.00 26.21
50	ATOM	2536	CG	LEU A 324	23.916	31.112	60.778	1.00 28.46
	ATOM	2537		LEU A 324	22.752	31.109		
							59.791	1.00 28.95
	ATOM	2538		LEU A 324	25.169	30.508	60.151	1.00 26.54
	ATOM	253 <i>9</i>	N	GLU A 325	25.234	34.976	63.033	1.00 27.04
	ATOM	2540	CA	GLU A 325	25.870	36.303	63.064	1.00 22.88
55	ATOM	2541	c	GLU A 325	27.282	36.210	63.624	
								1.00 28.76
	ATOM	2542	0	GLU A 325	28.250	36.722	63.026	1.00 26.24
	MOTA	2543	CB	GLU A 325	25.016	37.365	63.759	1.00 22.01
	MOTA	2544	CG	<b>GLU A 325</b>	25.827	38.411	64.524	1.00 41.55
	ATOM	2545	CD	GLU A 325	25.035	39.040	65.646	1.00 72.11
60	ATOM	2546						
50				GLU A 325	23.866	38.764	65.862	1.00 41.88
	ATOM	2547	OE2	GLU A 325	25.719	39.922	66.350	1.00 67.15
	ATOM	2548	N	ARG A 326	27.349	35.479	64.755	1.00 27.84
	ATOM	2549	CA	ARG A 326	28.551	35.213	65.511	1.00 28.10
	MOTA	2550	С	ARG A 326	29.604	34.457	64.771	1.00 30.90

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	MOTA	2551	0	ARG A	326	30.763	34.747	64.976	1.00 33.93
	ATOM	2552	CB	ARG A	326	28.334	34.761	66.947	1.00 31.52
	ATOM	2553	CG	ARG A		27.645	35.864	67.726	1.00 22.20
	ATOM	2554	CD	ARG A	326	27.462	35.572	69.203	1.00 28.71
5									
ر	ATOM	2555	NE	ARG A		26.727	36.673	69.830	1.00 23.82
	ATOM	2556	CZ	ARG A	326	25.805	36.556	70.780	1.00 26.09
	ATOM	2557	NHT	ARG A	326	25.443	35.388	71.305	1.00 23.16
	ATOM	2558	NH2	ARG A	326	25.220	37.655	71.222	1.00 24.77
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• •	Atom	2559	N	HIS A	321	29.221	33.511	63.918	1.00 29.85
10	ATOM	2560	CA	HIS A	327	30.207	32.777	63.120	1.00 30.52
	MOTA	2561	С	HIS A				62.085	
						30.778	33.738		1.00 35.50
	MOTA	2562	0	HIS A	327	31.966	33.777	61.822	1.00 36.74
	ATOM	2563	CB	HIS A	327	29.591	31.555	62.407	1.00 31.59
	ATOM	2564	CG	HIS A	327	29.764	30.259	63.176	1.00 34.51
15	ATOM	2565	NTD 1	HIS A	327	30.963	29.913	63.788	1.00 36.17
1.									
	ATOM	2566	CD2	HIS A	327	28.875	29.263	63.432	1.00 35.58
	ATOM	2567	CF1	HIS A	227	30.778	28.740	64.384	1.00 35.27
	ATOM	2568	NE2	HIS A	327	29.532	28.322	64.191	1.00 35.56
	MOTA	2569	N	ILE A	320	29.902	34.549	61.511	1.00 31.10
20									
20	ATOM	2570	CA	ILE A	328	30.328	35.517	60.528	1.00 31.66
	ATOM	2571	С	ILE A	328	31.416	36.407	61.086	1.00 40.12
	ATOM	2572	0	ILE A	328	32.451	36.615	60.465	1.00 40.81
	MOTA	2573	CB	ILE A	320	29.175	36.379	59.998	1.00 32.94
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	ATOM	2574	CG1	ILE A	328	28.220	35.570	59.114	1.00 29.53
25	MOTA	2575	CG2	ILE A	328	29.694	37.591	59.201	1.00 30.91
	MOTA	2576	CD1	ILE A	328	27.119	36.463	58.535	1.00 32.98
	MOTA	2577	N	CYS A	329	31.179	36.948	62.266	1.00 37.88
	ATOM	2578	CA	CYS A	329	32.170	37.810	62.851	1.00 39.54
	ATOM	2579	С	CYS A	329	33.475	37.092	63.157	1.00 40.19
20									
30	ATOM	2580	0	CYS A		34.567	37.642	62.971	1.00 38.44
	ATOM	2581	CB	CYS A	329	31.607	38,509	64.083	1.00 42.61
	ATOM	2582	SG	CYS A	329	30.241	39.595	63.619	1.00 48.14
	ATOM	2583	N	GLY A	330	33.332	35.852	63.632	1.00 34.74
	MOTA	2584	CA	GLY A	330	34.471	35.030	63.980	1.00 35.20
35	ATOM	2585	С	GLY A	330	35.359	34.854	62.778	1.00 43.66
	ATOM	2586				36.581			
			0	GLY A			34.857	62.891	1.00 46.79
	MOTA	2587	N	ARG A	331	34.709	34.725	61.622	1.00 34.99
	MOTA	2588	CA	ARG A	221	35.416	34.562	60.392	1.00 33.19
	MOTA	2589	С	ARG A	331	36.086	35.863	60.017	1.00 40.63
40	ATOM	25 <del>9</del> 0	0	ARG A	331	37.238	35.914	59.586	1.00 44.40
	ATOM	2591	CB	ARG A	331	34.494	34.101	59.269	1.00 31.29
	ATOM	2592	CG	ARG A	331	33.987	32.685	59.450	1.00 47.66
	ATOM	2593	CD	ARG A	331	34.812	31.722	58.622	1.00 70.36
	ATOM	2594	NE	ARG A	331	34.461	31.851	57.221	1.00 80.25
45		2595							
72	ATOM		CZ	ARG A		33.615	31.023	56.628	1.00100.00
	MOTA	2596	NH1	ARG A	331	33.055	29.999	57.279	1.00 79.12
	MOTA	2597		ARG A		33.334	31.216	55.341	1.00 89.33
	ATOM	2598	N	LEU A	332	35.342	36.926	60.172	1.00 32.14
	ATOM	2599	CA	LEU A		35.885	38.198	59.820	1.00 30.02
50									
50	ATOM	2600	С	LEU A	332	37.013	38.612	60.761	1.00 40.33
	ATOM	2601	0	LEU A	332	38.084	38.972	60.286	1.00 40.10
	MOTA	2602	CB	LEU A	332	34.772	39.262	59.822	1.00 28.20
	ATOM	2603	ÇG	LEU A	222	34.451	39.896	58.469	1.00 28.82
	MOTA	2604	CDI	LEU A	332	35.007	39.063	57.341	1.00 23.73
55	ATOM	2605	CD2	LEU A	332	32.947	40.114	58.306	1.00 29.76
	ATOM	2606	N	PHE A		36.744	38.557	62.091	1.00 37.69
	ATOM	2607	CA	PHE A	333	37.657	38.997	63.143	1.00 34.12
	MOTA	2608	С	PHE A	333	38.251	37.956	64.035	1.00 37.99
	MOTA	2609	0	PHE A	333	39.015	38.293	64.925	1.00 41.67
60									
oo	MOTA	2610	CB	PHE A		36.970	40.058	64.024	1.00 35.62
	ATOM	2611	CG	PHE A	333	36.209	41.003	63.138	1.00 39.09
	ATOM	2612		PHE A		36.887	41.923	62.332	1.00 43.22
	ATOM	2613	CD2	PHE A	333	34.818	40.941	63.045	1.00 42.78
	ATOM	2614	CEI	PHE A	333	36.205	42.781	61.464	1.00 44.14

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		ATOM	2615	CES	PHE A	333	3	34.123	41.806	62 104	1 00 46 56
										62.194	1.00 46.56
		ATOM	2616	CZ	PHE A	333		34.814	42.716	61.389	1.00 43.20
		ATOM	2617	N	GLY A	334	3	37.908	36.706	63.865	1.00 34.36
		ATOM	2618	CA	GLY A	334	7	88.507	35.705	64.763	1.00 32.89
	5	ATOM	2619	C	GLY A						
								37.582	34.985	65.767	1.00 32.67
		ATOM	2620	0	GLY A		3	36.641	35.540	66.340	1.00 33.48
		ATOM	2621	N	GLU A	335	3	37.908	33.726	66.003	1.00 23.52
		MOTA	2622	CA	GLU A			37.196	32.875	66.931	1.00 18.13
	10	ATOM	2623	С	GLU A			37.278	33.384	68.346	1.00 29.15
	10	ATOM	2624	0	GLU A	335	3	36.357	33.124	69.112	1.00 34.14
		MOTA	2625	CB	GLU A	335	3	37.782	31.488	66.929	1.00 17.35
		MOTA	2626	CG	GLU A			37.041	30.591	67.929	1.00 32.97
		MOTA	2627	CD	GLU A			35.642	30.305	67.473	1.00 46.14
		ATOM	2628	OE1	GLU A	335	3	35.093	30.944	66.588	1.00 39.31
	15	MOTA	2629	OE2	GLU A	335	3	35.080	29.317	68.132	1.00 32.80
		MOTA	2630	N	LYS A			38.370	34.077	68.706	1.00 24.53
		ATOM	2631	CA	LYS A			38.468	34.609	70.061	1.00 25.38
		ATOM	2632	С	LYS A	336	3	37.445	35.726	70.169	1.00 35.32
		MOTA	2633	0	LYS A	336	3	36.908	36.004	71.233	1.00 38.14
	20	ATOM	2634	СВ	LYS A			39.820			
	20								35.199	70.421	1.00 25.45
		MOTA	2635	CG	LYS A		4	10.871	34.188	70.825	1.00 25.43
		ATOM	2636	CD	LYS A	336	4	12.207	34.846	71.189	1.00 47.10
		ATOM	2637	CE	LYS A	336	4	13.325	34.600	70.172	1.00 68.74
		ATOM	2638	NZ	LYS A		-	4.566	34.072	70.767	
	25										1.00 77.62
	23	ATOM	2639	N	PHE A			37.174	36.364	69.029	1.00 31.52
		ATOM	2640	CA	PHE A	337	3	6.186	37.442	68.967	1.00 29.34
		ATOM	2641	С	PHE A	337		34.783	36.869	69.083	1.00 31.73
		ATOM	2642	ō	PHE A			3.908	37.424	69.742	
											1.00 35.53
	20	ATOM	2643	CB	PHE A			6.304	38.336	67.709	1.00 30.04
	30	MOTA	2644	CG	PHE ?	337	3	35.435	39.589	67.747	1.00 35.16
		ATOM	2645	CD1	PHE A	337	3	35.468	40.459	68.843	1.00 43.88
		ATOM	2646		PHE A			34.550	39.893	66.709	1.00 40.16
		ATOM	2647		PHE A			4.688	41.617	68.913	1.00 46.53
	~ -	ATOM	2648	CE2	PHE A	337	3	33.753	41.040	66.760	1.00 45.62
	35	ATOM	2649	CZ	PHE A	337	3	3.830	41.908	67.852	1.00 45.57
		ATOM	2650	N	ARG A			4.566	35.733	68.452	1.00 25.52
		ATOM	2651								
				CA	ARG A			33.266	35.119	68.508	1.00 25.23
		ATOM	2652	С	ARG A	338	3	32.944	34.759	69.922	1.00 29.77
		ATOM	2653	0	ARG A	338	3	1.854	35.025	70.415	1.00 31.81
	40	ATOM	2654	CB	ARG A	338		3.186	33.920	67.606	1.00 24.04
		ATOM	2655	CG	ARG A						
								1.839	33.228	67.623	1.00 21.31
		ATOM	2656	CD	ARG A			31.807	32.086	66.599	1.00 30.62
		ATOM	2657	NE	ARG A	338	3	32.518	30.892	67.040	1.00 29.87
		ATOM	2658	CZ	ARG A	338	3	1.919	29.781	67.466	1.00 26.37
	45	ATOM	2659		ARG A			0.616	29.687	67.518	1.00 20.26
			2660				_				
		ATOM			ARG A			2.632	28.737	67.864	1.00 18.57
		ATOM	2661	N	HIS A	339	3	3.934	34.190	70.577	1.00 25.88
		ATOM	2662	CA	HIS A	339	3	3.813	33.797	71.982	1.00 25.59
		ATOM	2663	С	HIS A			3.455	34.972	72.892	1.00 27.61
	50	ATOM	2664	Õ	HIS A						
:	20							2.615	34.912	73.793	1.00 25.27
•		MOTA	2665	CB	HIS A	339	. 3	5.065	33.045	72.462	1.00 25.06
		ATOM	2666	CG	HIS A	339	3	4.923	31.587	72.155	1.00 28.13
		ATOM	2667	ND1	HIS A	339		5.049	30.612	73.127	1.00 30.52
		ATOM									
٠.:	55		2668		HIS A			4.586	30.970	70.981	1.00 30.89
•	22	ATOM	2669	CE1	HIS A	. 339	, 3	4.843	29.442	72.535	1.00 30.89
٠		ATOM	2670	NE2	HIS A	339	3	4.546	29.616	71.245	1.00 31.36
		ATOM	2671	N	PHE A			4.103	36.065	72.608	1.00 24.54
••											
:		ATOM	2672	CA	PHE A			3.892	37.278	73.334	1.00 25.36
	<b>~</b>	ATOM	2673	С	PHE A		3	2.452	37.762	73.216	1.00 32.47
:	60	MOTA	2674	0	PHE A	340	3	1.822	38.222	74.190	1.00 32.78
		ATOM	2675	СВ	PHE A			4.876	38.309	72.801	1.00 26.03
		ATOM	2676	CG	PHE A			4.654	39.671	73.346	1.00 26.47
: ·:		MOTA	2677		PHE A		3	5.238	40.047	74.559	1.00 24.59
		ATOM	2678	CD2	PHE A	340		3.902	40.592	72.616	1.00 28.22
							•				20.22

	ATOM	2679	CE1	PHE A	340	35.063	41.330	75.072	1.00 21.58
	ATOM	2680		PHE A		33.715	41.879	73.115	1.00 29.13
	ATOM	2681	CZ	PHE A		34.280	42.225	74.345	1.00 25.28
	ATOM	2682	N	ASN A		31.944	37.663	72.004	1.00 28.41
5	ATOM	2683	CA	ASN A		30,600	38.084	71.728	1.00 29.60
,							37.110	72.379	1.00 38.52
	ATOM	2684	C	ASN A		29.665			
	ATOM	2685	0	ASN A		28.699	37.511	73.029	1.00 42.88
	ATOM	2686	CB	ASN A		30.322	38.274	70.224	1.00 30.01
10	ATOM	2687	CG	ASN A		31.159	39.374	69.587	1.00 52.80
10	ATOM	2688	OD1	ASN A	341	31.528	39.284	68.404	1.00 60.88
	ATOM	2689	ND2	ASN A	341	31.442	40.427	70.359	1.00 41.02
	ATOM	2690	N	ALA A	342	29.994	35.826	72.239	1.00 28.24
	ATOM	2691	CA	ALA A	342	29.195	34.800	72.877	1.00 26.95
	ATOM	2692	С	ALA A		29.013	35.134	74.393	1.00 35.98
15	ATOM	2693	Ō	ALA A		27.877	35.261	74.897	1.00 35.09
••	ATOM	2694	СВ	ALA A		29.837	33.422	72.671	1.00 25.45
	ATOM	2695	N	LEU A		30.153	35.304	75.122	1.00 29.16
	ATOM	2696	CA	LEU A		30.162	35.633	76.560	1.00 22.58
20	ATOM	2697	С	LEU A		29.310	36.854	76.831	1.00 27.48
20	MOTA	2698	0	LEU A		28.452	36.821	77.696	1.00 32.73
	ATOM	2699	CB	LEU A	343	31.583	35.786	77.147	1.00 18.70
	ATOM	2700	CG	LEU A	343	31.647	35.693	78.671	1.00 20.08
	ATOM	2701	CD1	LEU A	343	30.B42	34.510	79.204	1.00 17.76
	ATOM	2702	CD2	LEU A	343	33.091	35.522	79.111	1.00 21.94
25	ATOM	2703	N	GLY A		29.512	37.936	76.080	1.00 22.60
	ATOM	2704	CA	GLY A		28.670	39.146	76.278	1.00 24.15
	ATOM	2705	c c	GLY A		27.157	38.824	76.136	1.00 31.38
	ATOM	2706	Õ	GLY A		26.339	39.260	76.943	1.00 32.44
	ATOM	2707	N	GLY A		26.806	38.017	75.094	1.00 22.79
30		_					37.587	74.801	1.00 19.88
50	ATOM	2708	CA	GLY A		25.451			
	ATOM	2709	C	GLY A		24.787	36.994	76.034	1.00 28.37
	ATOM	2710	0	GLY A		23.632	37.294	76.325	1.00 27.56
	MOTA	2711	N	TRP A		25.547	36.153	76.765	1.00 25.41
	ATOM	2712	CA	TRP A	346	25.082	35.520	77.994	1.00 23.90
35	ATOM	2713	С	TRP A	346	24.825	36.541	79.071	1.00 31.54
	MOTA	2714	0	TRP A	346	23.957	36.379	79.924	1.00 29.57
	ATOM	2715	CB	TRP A	346	26.122	34.556	78.562	1.00 21.53
	ATOM	2716	CG	TRP A	346	25.680	33.880	79.837	1.00 21.92
	ATOM	2717	CD1	TRP A	346	25.933	34.335	81.079	1.00 24.36
40	ATOM	2718		TRP A		25.004	32.597	80.010	1.00 20.97
	ATOM	2719		TRP A		25.450	33.453	82.008	1.00 23.95
	ATOM	2720		TRP A		24.859	32.388	81.391	1.00 24.13
	ATOM	2721		TRP A		24.488	31.611	79.144	1.00 21.46
	ATOM	2722	CZ2			24.225	31.244	81.921	1.00 22.89
45	ATOM	2723					30.477	79.662	1.00 22.03
73				TRP A		23.872			
	ATOM	2724		TRP A		23.747			1.00 21.87
	ATOM	2725	N	GLY A		25.627	37.593	79.039	1.00 29.66
	ATOM	2726	CA	GLY A		25.465	38.625	80.042	1.00 29.03
50	MOTA	2727	С	GLY A		24.156	39.333	79.844	1.00 33.01
50	ATOM	2728	0	GLY A	347	23.491	39.647	80.799	1.00 34.17
	ATOM	2729	N	GLU A	348	23.797	39.574	78.581	1.00 30.57
	ATOM	2730	CA	GLU A	348	22.535	40.220	78.250	1.00 29.17
	ATOM	2731	С	GLU A	348	21.423	39.282	78.664	1.00 31.25
	ATOM	2732	0	GLU A		20.373	39,663	79.142	1.00 33.71
55	ATOM	2733	CB	GLU A		22.432	40.606	76.757	1.00 30.33
	ATOM	2734	CG	GLU A		23.432	41.715	76.336	1.00 49.41
	ATOM	2735	CD	GLU A		23.209	43.088	76.964	1.00 73.39
	MOTA	2736		GLU A		22.295	43.846	76.656	1.00 71.22
60	MOTA	2737		GLU A		24.119	43.395	77.857	1.00 44.23
60	ATOM	2738	N	LEU A		21.682	38.011	78.541	1.00 27.36
	MOTA	2739	CA	LEU A		20.677	37.081	78.976	1.00 26.89
	ATOM	2740	C	LEU A		20.429	37.250	80.485	1.00 24.87
	ATOM	2741	0	LEU A	349	19.299	37.403	80.914	1.00 28.31
	MOTA	2742	CB	LEU A	349	20.984	35.630	78.529	1.00 27.18

	ATOM	2743	CG	LEU A		19.943	34.565	78.942	1.00 32.45
	ATOM	2744	CD1	LEU A	349	18.611	34.704	78.154	1.00 30.09
	ATOM	2745	CD2	LEU A	349	20.541	33.169	78.749	1.00 27.10
	ATOM	2746	N	GLN A	350	21.460	37.255	81.315	1.00 14.78
5	ATOM	2747	CA	GLN A		21.188	37.428	82.727	1.00 18.51
•	ATOM	2748	c.	GLN A		20.442	38.722	82.953	1.00 25.53
									1.00 28.35
	MOTA	2749	0	GLN A		19.495	38.833	83.737	
	ATOM	2750	CB	GLN A		22.469	37.369	83.536	1.00 22.22
	MOTA	2751	CG	GLN A		23.512	36.426	82.919	1.00 22.37
10	MOTA	2752	CD	GLN A	350	24.871	36.673	83.547	1.00 34.49
	ATOM	2753	OE1	GLN A	350	25.261	35.932	84.417	1.00 24.01
	ATOM	2754	NE2	GLN A	350	25.588	37.727	83.127	1.00 36.58
	ATOM	2755	N	ASN A		20.838	39.696	82.201	1.00 22.64
	ATOM	2756	CA	ASN A		20.163	40.960	82.273	1.00 26.10
15	ATOM	2757	C	ASN A		18.661	40.780	82.083	1.00 20.10
13									
	MOTA	2758	0	ASN A		17.890	41.098	82.977	1.00 41.41
	ATOM	2759	CB	ASN A		20.769	42.021	81.341	1.00 20.74
	ATOM	2760	CG	ASN A	351	22.118	42.477	81.847	1.00 23.25
	MOTA	2761	OD1	ASN A	351	22.692	41.875	82.771	1.00 26.88
20	MOTA	2762	ND2	ASN A	351	22.644	43.530	81.247	1.00 32.93
	MOTA	2763	N	SER A	352	18.228	40.252	80.938	1.00 32.84
	ATOM	2764	CA	SER A	352	16.784	40.041	80.715	1.00 34.27
	ATOM	2765	C	SER A		16.107	39.135	81.784	1.00 31.72
	ATOM	2766	Õ	SER A		14.927	39.266	82.189	1.00 28.64
25									
25	ATOM	2767	СВ	SER A		16.503	39.531	79.301	1.00 42.57
	MOTA	2768	OG	SER A		17.506	39.979	78.407	1.00 49.17
	MOTA	2769	N	VAL A		16.874	38.188	82.247	1.00 21.90
	ATOM	2770	CA	VAL A	353	16.322	37.351	83.234	1.00 22.13
	MOTA	2771	С	VAL A	353	16.068	38.122	84.516	1.00 36.22
30	ATOM	2772	0	VAL A	353	14.958	38.076	85.052	1.00 37.69
	ATOM	2773	CB	VAL A	353	17.137	36.070	83.419	1.00 20.84
	ATOM	2774	CG1	VAL A		16.632	35.256	84.634	1.00 15.06
	MOTA	2775		VAL A		16.968	35.284	82.105	1.00 20.93
	ATOM	2776	N	LYS A		17.086	38.847	85.002	1.00 30.67
35	ATOM	2777	CA	LYS A		16.880	39.587	86.221	1.00 31.71
55		277B						86.098	1.00 31.71
	MOTA		C	LYS A		15.660	40.474		
	ATOM	2779	0	LYS A		14.808	40.582	86.980	1.00 35.80
	ATOM	2780	CB	LYS A		18.099	40.396	86.624	1.00 35.28
	ATOM	2781	CG	LYS A		17.841	41.303	87.818	1.00 51.51
40	ATOM	2782	CD	LYS A	354	19.038	41.405	88.749	1.00 60.46
	ATOM	2783	CE	LYS A	354	19.198	42.780	89.383	1.00 50.09
	ATOM	2784	NZ	LYS A	354	20.596	43.133	89.657	1.00 63.77
	ATOM	2785	N	THR A		15.608	41.108	84.962	1.00 32.63
	ATOM	2786	CA	THR A	355	14.562	42.025	84.610	1.00 34.03
45	ATOM	2787	С	THR A		13.129	41.422	84.578	1.00 42.11
	ATOM	2788	Ö	THR A		12.216	42.006	85.154	1.00 40.96
	ATOM	2789	СВ	THR A		14.974	42.736	83.308	1.00 41.11
								83.542	1.00 29.85
	ATOM	2790		THR A		16.071	43.615		
50	ATOM	2791		THR A		13.798	43.438	82.656	1.00 45.50
50	MOTA	2792	N	PHE A		12.895	40.273	83.908	1.00 33.89
	ATOM	2793	CA	PHE A	356	11.556	39.729	83.860	1.00 29.29
	MOTA	2794	С	PHE A	356	11.209	39.070	85.147	1.00 31.93
	MOTA	2795	0	PHE A	356	10.089	39.152	85.642	1.00 33.85
	ATOM	2796	CB	PHE A		11.460	38.645	82.785	1.00 33.30
55	ATOM	2797	CG	PHE A		11.187	39.196	81.416	1.00 36.54
	ATOM	2798		PHE A		10.106	40.054	81.224	1.00 42.38
		2799		PHE A		11.985	38.858	80.320	1.00 38.62
	ATOM								
	ATOM	2800		PHE A		9.831	40.596	79.968	1.00 44.75
<b>60</b>	ATOM	2801		PHE A		11.723	39.384	79.055	1.00 43.46
60	ATOM	2802	CZ	PHE A		10.649	40.261	78.890	1.00 43.86
	ATOM	2803	N	GLY A	357	12.212	38.386	85.661	1.00 30.41
	ATOM	2804	CA	GLY A	357	12.152	37.564	86.864	1.00 29.17
	ATOM	2805	С	GLY A		12.446	36.100	86.438	1.00 28.92
	ATOM	2806	ŏ	GLY A		12.008	35.642	85.372	1.00 27.33
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	MOTA	2807	N	GLU A	358	13.211	35.382	87.243	1.00 21.27
	ATOM	2808	CA	GLU A	358	13.590	34.040	86.898	1.00 23.10
	ATOM	2809	С	GLU A		12.424	33.104	86.747	1.00 31.53
_	MOTA	2810	0	GLU A		12.581	31.972	86.294	1.00 30.92
5	ATOM	2811	CB	ĢLU A		14.596	33.473	87.880	1.00 25.36
	ATOM	2812	CG	GLU A		14.011	33.436	89.301	1.00 38.73
	MOTA	2813	CD	GLU A		15.011	33.037	90.345	1.00 56.34
	ATOM	2814	OE1			16.026	32.446	90.071	1.00 50.55
10	ATOM	2815		GLU A		14.678	33.403	91.564	1.00 75.65
10	ATOM	2816	N	THR A		11.246	33.542	87.139	1.00 27.87
	ATOM	2817	CA	THR A		10.154	32.625		1.00 25.66
	ATOM	2818	С	THR A		9.236	33.152	85.906	1.00 25.96
	ATOM	2819	0	THR A		8.247	32.528	85.533	1.00 25.58
1.5	ATOM	2820	CB	THR A		9.423	32.341	88.253	1.00 25.00
15	ATOM	2821	OG1			8.908	33.565	88.692	1.00 33.10
	ATOM	2822	CG2	THR A		10.406	31.785	89.273	1.00 14.43
	ATOM	2823	N	HIS A		9.602	34.310	85.407	1.00 20.75
	MOTA	2824	CA	HIS A		8.837	34.902	84.363	1.00 22.77
20	ATOM	2825	С	HIS A		8.823	34.034	83.130	1.00 35.30
20	ATOM	2826	0	HIS A		9.858	33.611	82.620	1.00 37.42
	MOTA	2827	CB	HIS A		9.294	36.291	83.982	1.00 23.18
	MOTA	2828	CG	HIS A		8.207	36.908	83.219	1.00 27.05
	ATOM	2829		HIS A		7.532	38.009	83.691	1.00 29.34
25	ATOM ATOM	2830 2831		HIS A		7.651 6.596	36.545	82.059 82.806	1.00 29.91 1.00 27.94
23	MOTA	2832		HIS A		6.651	38.315 37.440	81.812	1.00 27.94
	MOTA	2833	NEZ N	PRO A		7.606	33.817	82.666	1.00 23.00
	ATOM	2834	CA	PRO A		7.301	32.999	81.519	1.00 32.46
	MOTA	2835	C	PRO A		7.862	33.478	80.224	1.00 29.40
30	ATOM	2836	Õ	PRO A		7.907	32.737	79.248	1.00 33.00
	ATOM	2837	СВ	PRO A		5.770	32.963	81.478	1.00 30.74
	ATOM	2838	CG	PRO A		5.311	33.172	82.927	1.00 34.96
	ATOM	2839	CD	PRO A		6.463	33.869	83.627	1.00 31.82
	ATOM	2840	N	PHE A		8.289	34.712	80.179	1.00 26.32
35	MOTA	2841	CA	PHE A		8.823	35.173	78.933	1.00 25.68
	ATOM	2842	С	PHE A		10.261	34.781	78.829	1.00 29.73
	ATOM	2843	0	PHE A	362	10.906	35.131	77.870	1.00 32.02
	ATOM	2844	CB	PHE A	362	8.643	36.677	78.723	1.00 28.12
	MOTA	2845	CG	PHE A	362	7.194	37.105	78.629	1.00 30.03
40	ATOM	2846		PHE A		6.204	36.276	78.098	1.00 30.92
	ATOM	2847		PHE A		6.804	38.372	79.051	1.00 32.04
	MOTA	2848	CE1	PHE A	362	4.864	36.655	77.998	1.00 26.59
	MOTA	2849		PHE A		5.470	38.773	78.952	1.00 32.40
4.5	ATOM	2850	CZ	PHE A		4.495	37.920	78.435	1.00 26.37
45	ATOM	2851	N	THR A		10.730	34.049	79.843	1.00 27.22
	MOTA	2852	CA	THR A		12.102	33.575	79.943	1.00 27.52
	ATOM	2853	C	THR A		12.251	32.132	79.504	1.00 29.28
	ATOM	2854	0	THR A		13.331	31.560	79.524	1.00 29.42
50	ATOM	2855	CB	THR A		12.697	33.777	81.360	1.00 31.67
JŲ	ATOM	2856		THR A		12.279	32.745	82.218	1.00 26.17
	ATOM	2857 2858		THR A		12.278	35.118	81.930	1.00 31.62 1.00 23.08
	ATOM ATOM	2859	n Ca	LYS A		11.148	31.530	79.113 78.664	
	ATOM	2860	C	LYS A		11.174 11.556	30.160 30.270	77.217	1.00 20.50 1.00 28.83
55	MOTA	2861		LYS A				76.570	
JJ	MOTA	2862	O CB	LYS A		11.139 9.766	31.239 29.584	78.667	1.00 29.80 1.00 23.55
	MOTA	2863	CG	LYS A		9.252	29.384	80.022	1.00 23.33
	ATOM	2864	CD	LYS A		7.761	29.134	80.022	1.00 40.83
	ATOM	2865	CE	LYS A		7.131	28.492	81.224	1.00 44.83
60	ATOM	2866	NZ	LYS A		6.063	27.638	80.691	1.00 00.30
	ATOM	2867	N	LEU A		12.332	29.328	76.698	1.00 31.70
	ATOM	2868	CA	LEU A		12.699	29.420	75.312	1.00 23.95
	ATOM	2869	C	LEU A		11.414	29.419	74.445	1.00 35.57
	MOTA	2870	ŏ	LEU A		11.166	30.369	73.708	1.00 34.58

	ATOM	2871	CB	LEU A		13.702	28.303	75.021	1.00 25.08
	MOTA MOTA	2872 2873	CG CD1	LEU A		14.456 14.987	28.372 29.778	73.702 73.466	1.00 31.15 1.00 33.16
	ATOM	2874		LEU A		15.609	27.353	73.781	1.00 30.62
5	ATOM	2875	N	VAL A		10.572	28.360	74.564	1.00 35.62
	ATOM	2876	CA	VAL A		9.294	28.232	73.840	1.00 32.10
	MOTA	2877	C	VAL A		8.211	28.911	74.694	1.00 33.14
	MOTA MOTA	2878 2879	O CB	VAL A		7.982 8.936	28.470 26.739	75.808 73.568	1.00 34.20 1.00 34.73
10	ATOM	2880		VAL A		7.558	26.605	72.933	1.00 34.73
	ATOM	2881		VAL A		9.922	26.012	72.649	1.00 32.65
	ATOM	2882	N	VAL A		7.562	29.990	74.211	1.00 28.76
	ATOM	2883	CA	VAL A		6.532	30.700	74.987	1.00 28.27
15	MOTA	2884	C	VAL A		5.161	30.613	74.420	1.00 30.62
13	MOTA ATOM	2885 2886	O CB	VAL A		4.994 6.773	30.509 32.185	73.235 75.061	1.00 34.30 1.00 33.45
	ATOM	2887		VAL A		8.178	32.478	75.565	1.00 33.43
	ATOM	2888		VAL A		6.498	32.804	73.693	1.00 33.18
	ATOM	2889	N	ASP A	368	4.168	30.722	75.290	1.00 29.27
20	ATOM	2890	CA	ASP A		2.764	30.771	74.984	1.00 27.67
	ATOM	2891	С	ASP A		2.315	32.207	74.862	1.00 26.94
	ATOM ATOM	2892 2893	O CB	ASP A		2.283 1.990	32.975 30.073	75.830 76.100	1.00 23.11 1.00 26.80
	ATOM	2894	CG	ASP A		0.572	29.781	75.613	1.00 20.80
<b>25</b> '	ATOM	2895		ASP A		0.276	30.123	74.481	1.00 38.93
	ATOM	2896	OD2	ASP A	368	-0.215	29.217	76.380	1.00 38.59
	ATOM	2897	N	LEU A		2.027	32.588	73.622	1.00 26.55
	ATOM	2898	CA	LEU A		1.643	33.953	73.373	1.00 27.39
30	ATOM ATOM	2899 2900	С 0	LEU A		0.138	34.105	73.301	1.00 30.74
30	ATOM	2901	СВ	LEU A		-0.372 2.281	34.979 34.395	72.648 72.064	1.00 30.68 1.00 26.06
	ATOM	2902	CG	LEU A		3.759	34.760	72.229	1.00 26.80
	ATOM	2903		LEU A	369	4.343	35.415	70.994	1.00 24.30
25	ATOM	2904		LEU A		4.014	35.728	73.384	1.00 21.81
35	ATOM	2905	N	THR A		-0.577	33.154	73.953	1.00 30.26
	MOTA MOTA	2906 2907	CA C	THR A		-2.022 -2.355	33.306 34.519	74.093 74.941	1.00 31.38 1.00 38.62
	ATOM	2908	ō	THR A		-1.821	34.714	76.027	1.00 38.84
	MOTA	2909	CB	THR A		-2.601	32.056	74.750	1.00 34.04
40	ATOM	2910		THR A		-2.472	30.949	73.873	1.00 29.99
	ATOM	2911		THR A		-4.091	32.266	75.052	1.00 26.40
	ATOM ATOM	2912 2913	N CA	ASP A		-3.173	35.387	74.363	1.00 37.89
	ATOM	2914	CA	ASP A		-3.641 -2.557	36.612 37.636	75.012 75.255	1.00 37.85 1.00 40.92
45	ATOM	2915	Ö	ASP A		-2.784	38.625	75.933	1.00 41.63
	ATOM	2916	CB	ASP A		-4.519	36.375	76.245	1.00 39.88
	MOTA	2917	CG	ASP A		-5.805	35.733	75.798	1.00 51.30
	ATOM	2918		ASP A		-6.373	36.072	74.761	1.00 50.39
50	ATOM ATOM	2919 2920		ASP A		-6.206	34.754	76.583	1.00 48.61
20	ATOM	2921	N CA	ILE A		-1.387 -0.259	37.398 38.283	74.664 74.817	1.00 36.37 1.00 34.61
	ATOM	2922	c	ILE A		0.203	39.018	73.555	1.00 35.46
	MOTA	2923	0	ILE A		0.545	38.400	72.548	1.00 36.69
66	ATOM	2924	CB	ILE A		0.920	37.511	75.381	1.00 36.51
55	ATOM	2925		ILE A		0.658	37.195	76.842	1.00 37.01
	ATOM ATOM	2926 2927		ILE A		2.121	38.441	75.281	1.00 35.52 1.00 54.33
	ATOM	2928	N	ASP A		1.268 0.254	38.261 40.345	77.747 73.601	1.00 34.33
	ATOM	2929	CA	ASP A		0.747	41.053	72.450	1.00 23.77
60	MOTA	2930	C	ASP A		2.263	40.781	72.360	1.00 31.40
	ATOM	2931	0	ASP A	373	3.040	41.002	73.305	1.00 32.80
	ATOM	2932	CB	ASP A		0.408	42.543	72.519	1.00 25.08
	ATOM	2933	CG	ASP A		1.064	43.356	71.418	1.00 43.24
	ATOM	2934	ODI	ASP A	3/3	1.861	42.894	70.616	1.00 45.30

	ATOM	2935	OD2	ASP	Α	373	0.668	44.610	71.395	1.00	38.59
	ATOM	2936	N	PRO	Α	374	2.709	40.267	71.225		29.51
	ATOM	2937	CA	PRO	Α	374	4.123	39.943	71.132	1.00	28.52
_	ATOM	2938	С	PRO	Α	374	5.029	41.090	71.506	1.00	32.54
5	ATOM	2939	0	PRO	Α	374	6.019	40.905	72.217	1.00	29.62
	ATOM	2940	CB	PRO	Α	374	4.390	39.421	69.714	1.00	28.88
	ATOM	2941	CG	PRO	Α	374	3.028	39.278	69.032	1.00	32.27
	MOTA	2942	CD			374	1.966	39.786	70.008		28.84
• •	ATOM	2943	N	ASP	Α	375	4.660	42.257	70.981	1.00	26.85
10	ATOM	2944	CA			375	5.357	43.511	71.154		24.25
	ATOM	2945	С	ASP			5.695	43.783	72.628		33.10
	ATOM	2946	0			375	6.648	44.494	72.988		30.67
	ATOM	2947	CB	ASP			4.507	44.617	70.509		24.46
1.5	ATOM	2948	CG			375	4.753	44.836	69.033		30.08
15	ATOM	2949		ASP			5.703	44.393	68.411		33.47
	ATOM	2950		ASP			3.852	45.609	68.491		38.41
	ATOM	2951	N			376	4.885	43.161	73.477		30.21
	ATOM	2952	CA	VAL			5.001	43.232	74.904		25.40
20	ATOM	2953	C			376	5.879	42.106	75.431		37.27
20	ATOM	2954	0	VAL			6.599	42.299	76.394		42.46
	ATOM	2955	CB	VAL			3.638	43.099	75.550		22.48
	ATOM	2956		VAL			3.799	42.533	76.975		21.25
	ATOM	2957 2958		VAL			2.926	44.440	75,547		18.29
25	ATOM ATOM	2959	N CA	ALA ALA			5.811 6.671	40.905 39.793	74,831 75,288		30.48
23	ATOM	2960	C	ALA			8.149	39.793	74.797	-	28.15
	ATOM	2961	õ	ALA			9.077	39.325	75.312		27.36
	MOTA	2962	СВ	ALA			6.091	38.433	74.891		26.74
	ATOM	2963	N	TYR			8.376	40.692	73.768		25.81
30	ATOM	2964	CA	TYR			9.683	40.876	73.161		25.43
	ATOM	2965	С	TYR			10.862	41.194	74.057		30.49
	ATOM	2966	0	TYR			10.873	42.204	74.747		32.35
	ATOM	2967	CB	TYR			9.549	41.924	72.068		26.20
	ATOM	2968	CG	TYR	Α	378	10.804	42.168	71.327		19.90
35	ATOM	2969	CD1	TYR			11.256	41.231	70.406		18.53
	MOTA	2970	CD2	TYR	Α	378	11.536	43.331	71.543	1.00	18.47
	ATOM	2971		TYR			12.444	41.436	69.716	1.00	15.98
	ATOM	2972	CE2	TYR			12.719	43.555	70.840	1.00	18.77
40	ATOM	2973	CZ	TYR			13.161	42.609	69.920	1.00	16.37
40	MOTA	2974	ОН	TYR			14.309	42.811	69.212		32.30
	ATOM	2975	N	SER			11.879	40.317	73.977		23.03
	ATOM	2976	CA	SER			13.115	40.430	74.725		18.13
	MOTA	2977	С	SER			14.267	39.777	73.970		20.60
45	ATOM	2978	0	SER			14.100	39.334	72.843		18.46
40	MOTA	2979	CB	SER			12.976	39.740	76.067		23.56
	MOTA	2980	OG	SER			12.805	38.329	75.883		37.26
	ATOM ATOM	2981 2982	N	SER			15.424	39.697	74.651		23.65
		2983	CA	SER			16.701	39.084	74.222		26.09
50	ATOM ATOM	2984	0	SER SER			16.669	37.571 36.785	74.457		28.37
50	ATOM	2985	СВ	SER			17.480 17.889	39.588	73.975 75.062		30.81
	ATOM	2986	OG	SER			18.036	41.000	75.032		42.48
	ATOM	2987	N	VAL			15.718	37.188	75.260		18.04
	ATOM	2988	CA	VAL			15.595	35.812	75.598		14.91
55	ATOM	2989	C	VAL			15.708	34.897	74.419		20.31
	ATOM	2990	Ó	VAL			16.620	34.091	74.330		27.64
	ATOM	2991	СВ	VAL			14.408	35.546	76.501		16.34
	ATOM	2992		VAL			14.284	34.062	76.734		17.26
	ATOM	2993		VAL			14.687	36.204	77.829		13.94
60	MOTA	2994	N	PRO			14.797	35.005	73.489		16.53
	MOTA	2995	CA	PRO			14.886	34.139	72.324		17.21
	MOTA	2996	С	PRO			16.222	34.230	71.634		24.01
	MOTA	2997	0	PRO			16.709	33.192	71.207		27.79
	ATOM	2998	CB	PRO	Α	382	13.777	34.514	71.351		17.20

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	ATOM	2999	CG	PRO A	382	13.003	35.618	72.033	1.00 18.32
	ATOM	3000	CD	PRO A		13.627	35.873	73.399	1.00 12.12
	ATOM	3001	N	TYR A		16.809	35.447	71.542	1.00 19.33
E	ATOM	3002	CA	TYR A		18.112	35.648	70.902	1.00 19.70
5	MOTA	3003	С	TYR A		19.246	34.953	71.651	1.00 28.79
	ATOM	3004	0	TYR A	383	19.980	34.117	71.104	1.00 31.38
	ATOM	3005	CB	TYR A	383	18.468	37.135	70.894	1.00 21.02
	ATOM	3006	CG	TYR A		17.593	37.968	70.011	1.00 23.86
10	MOTA	3007		TYR A		16.290	38.277	70.404	1.00 28.36
10	ATOM	3008		TYR A		18.067	38.450	68.784	1.00 20.93
	ATOM	3009		TYR A		15.473	39.054	69.576	1.00 30.88
	ATOM	3010	CE2	TYR A	383	17.272	39.244	67.957	1.00 18.71
	ATOM	3011	CZ	TYR A		15.967	39.533	68.358	1.00 25.95
	ATOM	3012	ОН	TYR A		15.171	40.294	67.556	1.00 30.84
15	ATOM	3013						72.921	
19			N	GLU A		19.389	35.333		1.00 20.17
	ATOM	3014	CA	GLU A		20.419	34.857	73.803	1.00 17.57
	ATOM	3015	С	GLU A	384	20.188	33.506	74.405	1.00 22.88
	MOTA	3016	0	GLU A	384	21.151	32.775	74.669	1.00 25.65
	ATOM	3017	CB	GLU A		20.833	35.973	74.773	1.00 20.44
20	ATOM	3018	CG	GLU A		21.263	37.202	73.944	1.00 15.21
20									
	ATOM	3019	CD	GLU A		22.539	36.937	73.184	1.00 26.58
	MOTA	3020		GLU A		23.185	35.915	73.293	1.00 17.84
	MOTA	3021	OE2	GLU A	384	22.887	37.915	72.400	1.00 21.88
	ATOM	3022	N	LYS A		18.935	33.116	74.610	1.00 20.33
25	ATOM	3023	CA	LYS A		18.736	31.767	75.146	1.00 20.05
	ATOM	3024	C	LYS A			30.716	74.028	1.00 27.19
						18.865			
	MOTA	3025	0	LYS A		19.420	29.621	74.219	1.00 31.66
	atom	3026	CB	LYS A		17.507	31.577	76.014	1.00 21.51
	ATOM	3027	CG	LYS A	385	17.676	30.384	76.953	1.00 22.29
30	ATOM	3028	CD	LYS A	385	16.386	29.820	77.518	1.00 19.87
	MOTA	3029	CE	LYS A		16.049	30.277	78.937	1.00 31.60
	ATOM	3030	NZ	LYS A		14.783	29.694	79.441	1.00 30.38
		3031							
	ATOM		N	GLY A		18.364	31.084	72.832	1.00 20.72
25	ATOM	3032	CA	GLY A		18.453	30.248	71.637	1.00 17.41
35	MOTA	3033	С	GLY A	386	19.924	30.106	71.298	1.00 20.81
	MOTA	3034	0	GLY A	386	20.396	29.001	71.225	1.00 22.50
	ATOM	3035	N	PHE A		20.683	31.228	71.163	1.00 20.30
	ATOM	3036	CA	PHE A		22.137	31.158	70.900	1.00 19.92
	ATOM	3037							
40			С	PHE A		22.840	30.263	71.905	1.00 29.09
40	ATOM	3038	0	PHE A		23.685	29.478	71.530	1.00 32.80
	ATOM	3039	СB	PHE A	387	22.852	32.519	70.955	1.00 20.07
	ATOM	3040	CG	PHE A	387	24.344	32.358	70.872	1.00 19.41
	ATOM	3041	CD1	PHE A	387	24.949	32.163	69.631	1.00 19.67
	MOTA	3042		PHE A		25.157	32.373	72.007	1.00 25.27
45	ATOM	3043		PHE A		26.329	31.977	69.525	1.00 20.88
	ATOM	3044		PHE A		26.542			
	ATOM	3045	CZ	PHE A		27.131	31.981	70.668	1.00 23.24
	MOTA	3046	N	ALA A	388	22.495	30.381	73.203	1.00 25.48
_	ATOM	3047	CA	ALA A	388	23.133	29.556	74.242	1.00 23.14
50	ATOM	3048	С	ALA A	388	22.872	28.108	74.055	1.00 32.10
	ATOM	3049	ō	ALA A		23.757	27.282	74.258	1.00 37.82
	ATOM	3050	CB	ALA A		22.717	29.932	75.633	1.00 23.02
	MOTA	3051	N	LEU A	389	21.636	27.793	73.691	1.00 26.31
	ATOM	3052	CA	LEU A	389	21.275	26.405	73.460	1.00 21.42
55	ATOM	3053	С	LEU A		22.189	25.906	72.372	1.00 27.91
	ATOM	3054	ō	LEU A		22.865	24.900	72.532	1.00 29.25
	ATOM	3055	СВ	LEU A				72.937	1.00 19.24
						19.841	26.300		
	ATOM	3056	CG	LEU A		19.427	24.868	72.632	1.00 17.17
<b></b>	ATOM	3057		LEU A		19.717	24.017	73.844	1.00 14.63
60	ATOM	3058	CD2	LEU A	389	17.943	24.808	72.328	1.00 10.16
	MOTA	3059	N	LEU A	390	22.217	26.659	71.262	1.00 24.49
	ATOM	3060	CA	LEU A		23.050	26.340	70.107	1.00 25.05
	ATOM	3061	C	LEU A		24.531	26.256	70.383	1.00 23.03
	ATOM	3062	0	LEU A	390	25.183	25.301	69.932	1.00 33.60

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	ATOM	3063	СВ			390	22.765	27.152	68.844	1.00 23.33
	MOTA	3064	CG			390	21.307	27.026	68.442	1.00 23.38
	ATOM	3065		LEU			20.986	28.025	67.334	1.00 20.84
5	ATOM	3066		LEU			20.988	25.591	68.017	1.00 18.86
3	ATOM	3067	N			391	25.058	27.231	71.127	1.00 28.52
	MOTA	3068	CA			391	26.480	27.236	71.494	1.00 27.82
	MOTA	3069	С			391	26.813	25.992	72.312	1.00 28.67
	MOTA	3070	0	PHE			27.839	25.331	72.148	1.00 26.96
	ATOM	3071	CB	PHE			26.834	28.455	72.341	1.00 28.60
10	MOTA	3072	CG	PHE			28.296	28.786	72.283	1.00 30.53
	MOTA	3073	CD1	PHE	Α	391	28.967	28.816	71.064	1.00 35.08
	MOTA	3074	CD2	PHE	Α	391	29.020	29.063	73.440	1.00 36.52
	ATOM	3075	CEl	PHE	Α	391	30.320	29.142	70.983	1.00 37.61
	MOTA	3076	CE2	PHE	Α	391	30.378	29.383	73.382	1.00 40.61
15	MOTA	3077	CZ	PHE	Α	391	31.026	29.432	72.148	1.00 37.64
	MOTA	3078	N	TYR	Α	392	25.913	25.699	73.225	1.00 24.90
	MOTA	3079	CA	TYR	Α	392	26.044	24.550	74.065	1.00 24.66
	ATOM	3080	С	TYR	A	392	26.106	23.298	73.186	1.00 34.30
	MOTA	3081	0	TYR			27.058	22.558	73.268	1.00 37.51
20	ATOM	3082	СВ	TYR			24.821	24.501	74.967	1.00 26.39
	ATOM	3083	CG	TYR			24.631	23.181	75.678	1.00 31.99
	ATOM	3084		TYR			25.546	22.715	76.625	1.00 35.17
	ATOM	3085		TYR			23.501	22.397	75.432	1.00 32.49
	MOTA	3086		TYR			25.341	21.512	77.306	1.00 39.01
25	ATOM	3087		TYR			23.281	21.184	76.094	1.00 31.50
	ATOM	3088	CZ	TYR			24.206	20.743	77.035	1.00 34.08
	ATOM	3089	OH	TYR			23.986	19.564	77.683	1.00 34.00
	ATOM	3090	N	LEU			25.101	23.067	72.310	1.00 31.02
	ATOM	3091	CA	LEU			25.043	21.889	71.410	1.00 31.02
30	MOTA	3092	C	LEU			26.274	21.616	70.507	1.00 23.03
30	ATOM	3093	Ö	LEU			26.664	20.468	70.267	1.00 32.03
	ATOM	3094	СВ	LEU			23.758	21.905	70.552	1.00 27.90
	ATOM	3095	CG	LEU						
		3096					22.489	21.688	71.375	1.00 30.33
35	ATOM			LEU			21.256	22.047	70.559	1.00 27.38
33	ATOM	3097		LEU			22.400	20.246	71.865	1.00 29.76
	ATOM	3098 3099	N	GLU			26.841	22.701	69.980	1.00 30.84
	ATOM		CA	GLU			28.000	22.727	69.118	1.00 30.05
	ATOM	3100 3101	C	GLU			29.210	22.214	69.868	1.00 39.16
40	ATOM	3101	0	GLU			30.089	21.595	69.299	1.00 42.14
40	ATOM		CB	GLU			28.300	24.204	68.756	1.00 31.03
	ATOM	3103	CG	GLU			29.776	24.406	68.376	1.00 37.11
	ATOM	3104	CD	GLU			30.182	25.830	68.208	1.00 45.20
	ATOM	3105		GLU			29.614	26.609	67.471	1.00 56.77
15	ATOM	3106	OE2				31.229	26.133	68.927	1.00 39.77
45	MOTA	3107	N	GLN			29.256	22.534	71.160	1.00 34.20
	ATOM	3108	CA	GLN			30.342	22.139	72.029	1.00 32.86
	ATOM	3109	С	GLN			30.143	20.690	72.435	1.00 38.65
	ATOM	3110	0	GLN			31.066	19.899	72.507	1.00 38.67
50	MOTA	3111	CB	GLN			30.474	23.051	73.287	1.00 33.17
. 30	MOTA	3112	CG	GLN			30.831	24.540	72.996	1.00 13.79
	MOTA	3113	CD	GLN			31.176	25.354	74.247	1.00 37.45
	ATOM	3114		GLN			30.909	24.959	75.407	1.00 26.89
:	MOTA	3115		GLN			31.758	26.523	74.010	1.00 31.99
55	MOTA	3116	N	LEU			28.903	20.352	72.682	1.00 38.68
	MOTA	3117	CA	LEU			28.514	19.015	73.083	1.00 38.49
	MOTA	3118	C	LEU			28.633	18.017	71.924	1.00 39.28
	MOTA	3119	0	LEU			29.012	16.871	72.100	1.00 42.17
	MOTA	3120	CB	LEU			27.055	19.072	73.628	1.00 37.93
	MOTA	3121	CG	LEU			26.389	17.732	73.946	1.00 42.72
60	MOTA	3122		LEU			26.436	17.489	75.445	1.00 45.42
•	MOTA	3123	CD2	LEU			24.917	17.709	73.527	1.00 43.81
	MOTA	3124	N	LEU	Α	397	28.303	18.456	70.730	1.00 28.48
	MOTA	3125	CA	LEU			28.337	17.595	69.589	1.00 25.49
	MOTA	3126	С	LEU			29.620	17.609	68.771	1.00 36.86
									_	

	ATOM	3127	0	LEU A	397	29.596	17.220	67.599	1.00 39.85
	ATOM	3128	СВ	LEU A	397	27.156	17.924	68.686	1.00 23.73
	ATOM	3129	CG	LEU A		25.843	17.773	69.401	1.00 25.82
5	MOTA	3130		LEU A		24.740	18.559	68.669	1.00 22.99
2	MOTA	3131	CD2	LEU A	397	25.525	16.272	69.452	1.00 27.30
	MOTA	3132	N	GLY A	398	30.731	18.069	69.342	1.00 33.98
	MOTA	3133	CA	GLY A		31.993	18.038	68.617	1.00 34.14
	ATOM	3134	С	GLY A		32.547	19.260	67.889	1.00 38.92
	ATOM	3135	0	GLY A	398	33.502	19.097	67.115	1.00 39.98
10	ATOM	3136	N	GLY A	399	32.001	20.457	68.105	1.00 33.01
	ATOM	3137	CA	GLY A		32.543	21.650	67.440	1.00 30.35
	ATOM	3138	С	GLY A	399	31.713	22.336	66.365	1.00 31.72
	MOTA	3139	0	GLY A	399	30.800	21.823	65.762	1.00 34.57
	ATOM	3140	N	PRO A	400	32.076	23.550	66.124	1.00 33.01
15	MOTA	3141	CA	PRO A		31.429	24.406	65.151	1.00 35.02
	ATOM	3142	С	PRO A		31.379	23.794	63.750	1.00 43.93
	ATOM	3143	0	PRO A	400	30.360	23.838	63.045	1.00 40.14
	ATOM	3144	CB	PRO A	400	32.293	25.672	65.111	1.00 35.73
	ATOM	3145	CG	PRO A		33.539	25.411	65.948	1.00 38.03
20									
20	MOTA	3146	CD	PRO A		33.423	24.010	66.517	1.00 33.92
	ATOM	3147	N	GLU A	401	32.512	23.237	63.345	1.00 43.85
	ATOM	3148	CA	GLU A	401	32.597	22.620	62.042	1.00 42.92
	ATOM	3149	C	GLU A		31.491	21.587	61.878	
									1.00 37.92
25	MOTA	3150	0	GLU A		30.810	21.588	60.866	1.00 33.79
25	ATOM	3151	CB	GLU A	401	33.996	22.034	61.789	1.00 45.93
	ATOM	3152	CG	GLU A	401	34.578	22.372	60.398	1.00 69.62
	ATOM	3153	CD	GLU A		35.603	21.373	59.911	1.00100.00
	ATOM	3154							
				GLU A		36.702	21.236	60.427	1.00100.00
~~	ATOM	3155	OE2	GLU A	401	35.195	20.689	58.865	1.00 93.16
30	ATOM	3156	N	ILE A	402	31.317	20.720	62.902	1.00 34.58
	ATOM	3157	CA	ILE A		30.281	19.681	62.922	1.00 33.20
	ATOM	3158	c	ILE A					
						28.898	20.291	62.938	1.00 39.09
	ATOM	3159	0	ILE A		28.065	19.896	62.133	1.00 41.43
	MOTA	3160	CB	ILE A	402	30.391	18.673	64.078	1.00 33.82
35	ATOM	3161	CG1	ILE A	402	31.490	17.661	63.811	1.00 34.70
	ATOM	3162		ILE A		29.080	17.900		
								64.287	1.00 23.32
	MOTA	3163		ILE A		31.878	16.896	65.080	1.00 49.20
	ATOM	3164	N	PHE A	403	28.668	21.246	63.868	1.00 32.73
	ATOM	3165	CA	PHE A	403	27.390	21.952	64.044	1.00 29.52
40	ATOM	3166	С	PHE A		27.032	22.816	62.836	1.00 33.94
	ATOM								
		3167	0	PHE A		25.866	23.022	62.469	1.00 34.15
	ATOM	3168	CB	PHE A	403	27.319	22.719	65.381	1.00 29.03
	ATOM	3169	CG	PHE A	403	25.917	22.783	65.929	1.00 28.54
	ATOM	3170	CD1	PHE A	403	25.323	21.643	66.484	1.00 29.91
45	ATOM	3171		PHE A		25.176	23.964		
								65.873	1.00 27.62
	ATOM	3172		PHE A		24.021	21.667	66.990	1.00 27.38
	ATOM	3173	CE2	PHE A	403	23.881	24.017	66.393	1.00 28.82
	MOTA	3174	CZ	PHE A	403	23.304	22.863	66.932	1.00 25.72
	ATOM	3175	N	LEU A		28.040	23.327		1.00 31.31
50								62.165	
50	ATOM	3176	CA	LEU A		27.687	24.080	60.983	1.00 32.95
	ATOM	3177	С	LEU A	404	27.068	23.099	59.952	1.00 32.89
	ATOM	3178	0	LEU A	404	26.050	23.361	59.315	1.00 37.36
	ATOM	3179	СВ	LEU A		28.798			
							25.045	60.464	1.00 33.15
<i>E E</i>	ATOM	3180	CG	LEU A		29.029	26.208	61.444	1.00 36.96
55	MOTA	3181	CD1	LEU A	404	30.454	26.717	61.353	1.00 37.13
	ATOM	3182		LEU A		28.083	27.362	61.163	1.00 39.27
	ATOM	3183	N	GLY A					
						27.670	21.921	59.826	1.00 22.02
	MOTA	3184	CA	GLY A		27.167	20.908	58.928	1.00 22.77
	ATOM	3185	С	GLY A	405	25.698	20.676	59.206	1.00 31.85
60	ATOM	3186	0	GLY A		24.885	20.438	58.297	1.00 33.01
	ATOM	3187	N	PHE A					
						25.364	20.747	60.493	1.00 26.28
	MOTA	3188	CA	PHE A		23.992	20.565	60.863	1.00 25.27
	ATOM	3189	С	PHE A	406	23.188	21.757	60.365	1.00 34.80
	ATOM	3190	0	PHE A		22.195	21.629	59.638	1.00 36.22
	<del></del>		_					55.050	1.00 30.22

	MOTA	3191	СВ	PHE A 406	23.798	20.268	62,351	1.00 24.52
	ATOM	3192	CG	PHE A 406		20.525	62.798	1.00 24.82
	ATOM	3193		PHE A 406		19.734	62.353	1.00 28.50
_	ATOM	3194		PHE A 406		21.579	63.669	1.00 30.12
5	MOTA	3195		PHE A 406		19.977	62.793	1.00 31.40
	MOTA	3196	CE2	PHE A 406	20.810	21.862	64.105	1.00 32.57
	ATOM	3197	CZ	PHE A 406	19.771	21.037	63.669	1.00 31.88
	ATOM	3198	N	LEU A 407	23.661	22.934	60.708	1.00 32.11
	ATOM	3199	CA	LEU A 407		24.132	60.269	1.00 33.11
10	ATOM	3200		LEU A 407		24.204	58.767	1.00 34.74
10			С					
	ATOM	3201	0	LEU A 407		24.615	58.341	1.00 35.21
	ATOM	3202	CB	LEU A 407	23.589	25.420	60.840	1.00 35.36
	MOTA	3203	CG	LEU A 407	22.597	26.577	60.855	1.00 41.79
	ATOM	3204	CD1	LEU A 407	23.048	27.626	61.833	1.00 40.45
15	ATOM	3205		LEU A 407		27.197	59.461	1.00 49.57
	ATOM	3206	N	LYS A 408		23.804	57.948	1.00 34.92
	MOTA	3207	CA	LYS A 408		23.826	56.490	1.00 36.29
	ATOM	3208	С	LYS A 408	22.378	22.876	56.037	1.00 38.15
	ATOM	3209	0	LYS A 408	21.568	23.191	55.160	1.00 35.09
20	ATOM	3210	CB	LYS A 408	24.747	23.517	55.707	1.00 40.54
	ATOM	3211	CG	LYS A 408	24.633	23.873	54.214	1.00 43.41
	ATOM	3212	CD	LYS A 408		23.796	53.422	1.00 49.26
	ATOM	3213	CE	LYS A 408		25.059	53.459	1.00 61.45
25	MOTA	3214	NZ	LYS A 408		24.994	52.606	1.00 73.78
25	ATOM	3215	N	ALA A 409		21.690	56.655	1.00 35.34
	ATOM	3216	CA	ALA A 409	21.333	20.698	56.298	1.00 36.14
	ATOM	3217	С	ALA A 409	19.927	21.041	56.814	1.00 38.45
	ATOM	3218	0	ALA A 409	18.913	20.821	56.134	1.00 37.39
	ATOM	3219	СВ	ALA A 409		19.273	56.626	1.00 36.66
30	ATOM	3220					58.030	
50			N	TYR A 410		21.597		1.00 33.14
	MOTA	3221	CA	TYR A 410		22.059	58.682	1.00 29.65
	ATOM	3222	С	TYR A 410	18.028	23.051	57.730	1.00 35.55
	MOTA	3223	0	TYR A 410	16.855	22.976	57.399	1.00 37.26
	ATOM	3224	CB	TYR A 410	19.117	22.762	59.970	1.00 24.67
35	MOTA	3225	CG	TYR A 410		23.643	60.541	1.00 26.95
	ATOM	3226		TYR A 410		23.112	60.990	1.00 28.10
	ATOM	3227		TYR A 410		25.015	60.663	1.00 29.66
	ATOM	3228		TYR A 410		23.924	61.571	1.00 26.98
40	ATOM	3229		TYR A 410		25.839	61.230	1.00 31.84
40	MOTA	3230	CZ	TYR A 410		25.294	61.685	1.00 37.49
	ATOM	3231	ОН	TYR A 410	15.156	26.110	62.241	1.00 33.48
	ATOM	3232	N	VAL A 411	18.848	23.961	57.262	1.00 28.75
	ATOM	3233	CA	VAL A 411	18.457	24.984	56.341	1.00 29.23
	ATOM	3234	С	VAL A 411		24.469	54.992	1.00 34.00
45	ATOM	3235	ō	VAL A 411		24.982	54.401	1.00 30.00
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	ATOM	3236		VAL A 411				1.00 32.22
	MOTA	3237		VAL A 411		26.821	54.950	1.00 29.86
	ATOM	3238	CG2	VAL A 411		26.708	57.431	1.00 31.69
	ATOM	3239	N	GLU A 412	18.730	23.479	54.488	1.00 33.14
50	ATOM	3240	CA	GLU A 412	18.402	22.900	53.217	1.00 31.91
	ATOM	3241	C .	GLU A 412		22.163	53.355	1.00 30.32
**	ATOM	3242	o i	GLU A 412		22.225	52.531	1.00 31.89
	ATOM	3243	СВ			21.883	52.932	
				GLU A 412				1.00 36.48
E E	ATOM	3244	CG	GLU A 412		22.174	51.737	1.00 67.01
55	ATOM	3245	CD	GLU A 412		21.699	51.962	1.00100.00
	ATOM	3246		GLU A 412		20.782	52.716	1.00100.00
	ATOM	3247	OE2	GLU A 412		22.396	51.277	1.00 94.73
	ATOM	3248	N	LYS A 413		21.444	54.444	1.00 22.18
	ATOM	3249	CA	LYS A 413		20.692	54.714	1.00 22.10
60								
UU	ATOM	3250	C	LYS A 413		21.486	54.855	1.00 23.75
	ATOM	3251	0	LYS A 413		20.978	54.503	1.00 25.92
	ATOM	3252	CB	LYS A 413	15.890	19.911	55.988	1.00 15.65
	ATOM	3253	CG	LYS A 413	14.554	19.422	56.503	1.00 38.69
	ATOM	3254	CD	LYS A 413		18.089	55.903	1.00 58.11
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	ATOM	3255	CE	LYS A	413	13.634	17.099	56.937	1.00 64.98
	ATOM	3256	NZ	LYS A	413	13.457	15.751	56.381	1.00 73.89
	ATOM	3257	N	PHE A	414	14.530	22.688	55.424	1.00 25.40
	ATOM	3258	CA	PHE A		13.316	23.479	55.640	1.00 27.80
5	ATOM	3259	C	PHE A		13.151	24.748		
-	ATOM							54.821	1.00 35.82
		3260	0	PHE A		12.276	25.557	55.122	1.00 35.17
	MOTA	3261	CB	PHE A		13.063	23.791	57.118	1.00 30.46
	ATOM	3262	CG	PHE A	414	12.936	22.553	57.964	1.00 33.88
	ATOM	3263	CD1	PHE A	414	11.746	21.826	57.996	1.00 35.94
10	ATOM	3264	CD2	PHE A	414	14.005	22.110	58.742	1.00 37.75
	ATOM	3265		PHE A		11.629	20.664	58.761	1.00 37.77
	ATOM	3266		PHE A				59.526	
						13.888	20.962		1.00 42.23
	MOTA	3267	CZ	PHE A		12.698	20.231	59.542	1.00 39.10
1.5	MOTA	3268	N	SER A	415	13.970	24.933	53.795	1.00 36.12
15	ATOM	3269	CA	SER A	415	13.858	26.115	52.945	1.00 36.36
	ATOM	3270	С	SER A	415	12.412	26.295	52.510	1.00 38.99
	ATOM	3271	0	SER A		11.730	25.315	52.243	1.00 41.04
	ATOM	3272	CB	SER A					
						14.773	26.008	51.736	1.00 37.43
20	ATOM	3273	OG	SER A		16.036	26.566	52.046	1.00 46.73
20	MOTA	3274	N	TYR A		11.928	27.537	52.475	1.00 33.40
	ATOM	3275	CA	TYR A	416	10.541	27.832	52.072	1.00 30.88
	ATOM	3276	С	TYR A	416	9.453	27.183	52.947	1.00 33.62
	ATOM	3277	0	TYR A		8.295	27.095	52.546	1.00 33.44
	ATOM	3278	СВ	TYR A		10.292	27.479	50.584	1.00 28.42
25	ATOM	3279	CG	TYR A		11.496	27.782		
20								49.723	1.00 24.76
	MOTA	3280		TYR A		11.791	29.087	49.338	1.00 26.55
	ATOM	3281	CD2	TYR A		12.375	26.778	49.335	1.00 21.68
	ATOM	3282	CE1	TYR A	416	12.914	29.384	48.570	1.00 25.16
••	ATOM	3283	CE2	TYR A	416	13.504	27.052	48.572	1.00 20.15
30	ATOM	3284	CZ	TYR A	416	13.780	28.360	48.189	1.00 30.62
	ATOM	3285	OH	TYR A		14.892	28.616	47.399	1.00 35.15
	ATOM	3286	N	LYS A		9.823	26.713	54.122	1.00 27.67
	ATOM								
		3287	CA ·	LYS A		8.889	26.065	55.008	1.00 28.02
25	ATOM	3288	С	LYS A		8.733	26.830	56.317	1.00 31.36
35	ATOM	3289	0	LYS A	417	9.547	27.671	56.682	1.00 33.15
	ATOM	3290	CB	LYS A	417	9.335	24.615	55.252	1.00 33.86
	MOTA	3291	CG	LYS A	417	8.449	23.792	56.201	1.00 86.28
	MOTA	3292	CD	LYS A	417	8.742	22.275	56.232	1.00100.00
	MOTA	3293	CE	LYS A		7.924	21.471	57.265	1.00 72.28
40	MOTA	3294	NZ	LYS A		8.280		57.323	
••	ATOM	3295					20.033		1.00 41.88
			N	SER A		7.668	26.557	57.033	1.00 28.88
	ATOM	3296	CA	SER A		7.455	27.195	58.335	1.00 30.04
	ATOM	3297	С	SER A	418	7.425	26.064	59.332	1.00 34.09
	ATOM	3298	0	SER A	418	6.614	25.145	59.193	1.00 31.54
45	ATOM	3299	СВ	SER A	418	6.261	28.126	58.410	1.00 31.46
	MOTA	3300	OG	SER A		6.417	29.106	57.399	1.00 35.01
	MOTA	3301	N	ILE A		8.356	26.077	60.281	1.00 28.50
	ATOM	3302	CA	ILE A					
						8.446	24.971	61.205	1.00 23.86
50	ATOM	3303	С	ILE A		8.272	25.342	62.641	1.00 25.06
30	ATOM	3304	0	ILE A		8.122	26.500	63.002	1.00 21.64
	ATOM	3305	CB	ILE A	419	9.803	24.314	61.026	1.00 25.02
	MOTA	3306	CG1	ILE A	419	10.863	25.325	61.399	1.00 23.63
	MOTA	3307	CG2	ILE A	419	10.051	23.937	59.565	1.00 23.22
	ATOM	3308		ILE A		12.236	24.688	61.253	1.00 23.48
55	ATOM	3309	N	THR A		8.321	24.302	63.455	1.00 23.48
	ATOM								
		3310	CA	THR A		8.201	24.417	64.895	1.00 24.36
	ATOM	3311	С	THR A		9.416	23.795	65.538	1.00 28.90
	MOTA	3312	0	THR A	420	10.190	23.112	64.863	1.00 23.38
	ATOM	3313	CB	THR A	420	6.979	23.691	65.448	1.00 24.92
60	MOTA	3314	OG1	THR A		7.190	22.313	65.291	1.00 26.43
	ATOM	3315		THR A		5.728		64.694	
	ATOM	3316					24.082		1.00 31.57
			N	THR A		9.542	24.051	66.855	1.00 29.30
	ATOM	3317	CA	THR A		10.610	23.549	67.709	1.00 27.78
	MOTA	3318	С	THR A	421	10.831	22.035	67.585	1.00 30.99

	ATOM	3319	0	THR A	421	11.975	21.594	67.489	1.00 33.28
	ATOM	3320	CB	THR A	421	10.394	23.969	69.166	1.00 21.94
	ATOM	3321		THR A					
						10.567	25.369	69.263	1.00 24.52
_	MOTA	3322	CG2	THR A	A 421	11.399	23.221	70.045	1.00 20.12
5	ATOM	3323	N	ASP A	422	9.721	21.272	67.575	1.00 21.94
	MOTA	3324	CA	ASP A	422	9.706	19.823	67.430	1.00 21.08
	ATOM								
		3325	С	ASP A		10.323	19.401	66.104	1.00 31.16
	ATOM	3326	0	ASP A	A 422	11.110	18.427	66.027	1.00 31.95
	MOTA	3327	CB	ASP A	A 422	8.276	19.278	67.561	1.00 19.49
10	ATOM	3328	CG	ASP A		8.236	17.802	67.298	1.00 31.85
	MOTA	3329		ASP A		9.130	17.040	67.654	1.00 29.73
	ATOM	3330	OD2	ASP A	A 422	7.197	17.415	66.598	1.00 56.60
	MOTA	3331	N	ASP A	A 423	9.957	20.146	65.049	1.00 26.75
	ATOM	3332	CA	ASP A		10.505	19.876	63.729	1.00 26.01
15							-		
13	MOTA	3333	С	ASP A	_	12.027	19.957	63.830	1.00 40.09
	ATOM	3334	0	ASP A	A 423	12.753	19.020	63.500	1.00 47.09
	MOTA	3335	CB	ASP A	4 423	10.000	20.833	62.631	1.00 24.86
	ATOM	3336	CG	ASP A		8.538	20.722	62.343	1.00 39.90
20	MOTA	3337		ASP A		7.968	19.649	62.299	1.00 45.03
20	MOTA	3338	OD2	ASP A	A 423	7.943	21.887	62.113	1.00 40.43
	MOTA	3339	N	TRP A	424	12.493	21.099	64.320	1.00 31.92
	ATOM	3340	CA	TRP A		13.903	21.372	64.495	1.00 29.69
	ATOM	3341	С	TRP A	1 424	14.611	20.271	65.282	1.00 33.81
	MOTA	3342	0	TRP A	424	15.537	19.616	64.824	1.00 35.87
25	ATOM	3343	CB	TRP A	424	14.056	22.711	65.239	1.00 26.11
	ATOM	3344	CG	TRP A		15.431	22.869	65.786	1.00 27.05
	MOTA	3345		TRP A		16.518	23.302	65.101	1.00 29.65
	ATOM	3346		TRP A		15.885	22.587	67.119	1.00 26.62
	ATOM	3347	NE1	TRP A	424	17.612	23.321	65.922	1.00 27.83
30	ATOM	3348		TRP A		17.257	22.891	67.163	1.00 28.62
-									
	ATOM	3349		TRP A		15.260	22.138	68.269	1.00 29.69
	ATOM	3350	CZ2	TRP A	424	18.010	22.758	68.319	1.00 29.28
	ATOM	3351	CZ3	TRP A	424	16.000	21.993	69.429	1.00 33.50
	ATOM	3352		TRP A		17.362	22.317	69.459	1.00 33.93
35	ATOM	3353							
55			N	LYS A		14.156	20.090	66.497	1.00 28.75
	MOTA	3354	CA	LYS A	425	14.723	19.105	67.373	1.00 29.43
	MOTA	3355	С	LYS A	425	14.697	17.691	66.808	1.00 29.49
	ATOM	3356	0	LYS A	425	15.627	16.928	67.030	1.00 27.65
	ATOM	3357	СВ	LYS A				68.744	
40						14.078	19.171		1.00 29.70
40	ATOM	3358	CG	LYS A	1 425	14.860	18.414	69.787	1.00 28.11
	ATOM	3359	CD	LYS A	425	14.161	18.409	71.132	1.00 23.57
	ATOM	3360	CE	LYS A	425	14.300	17.063	71.815	1.00 36.16
	ATOM	3361	NZ	LYS A		13.042	16.302	71.768	1.00 58.08
4.5	ATOM	3362	N	ASP A		13.606	17.361	66.107	1.00 19.05
45	ATOM	3363	CA	ASP A	426	13.417	16.070	65.516	1.00 18.43
	ATOM	3364	С	ASP A	426	14.453	15.879	64.387	1.00 28.33
	ATOM	3365	0	ASP A		15.070			1.00 31.25
	ATOM	3366	СВ	ASP A		11.920	15.840	65.098	1.00 19.79
	ATOM	3367	CG	ASP A	426	10.998	15.575	66.274	1.00 25.54
50	ATOM	3368	OD1	ASP 7	426	11.341	15.466	67.409	1.00 29.73
	ATOM	3369		ASP A		9.804	15.611	65.938	1.00 20.67
	ATOM	3370	N	PHE A		14.674	16.926	63.612	1.00 25.09
	ATOM	3371	CA	PHE A	1 427	15.654	16.899	62.540	1.00 25.81
	ATOM	3372	С	PHE A	427	17.066	16.718	63.159	1.00 34.01
55	ATOM	3373	ō	PHE A		17.843	15.851	62.773	1.00 36.25
	ATOM	3374	CB	PHE A		15.589	18.197	61.704	1.00 26.35
	MOTA	3375	CG	PHE A	427	16.698	18.202	60.702	1.00 27.40
	ATOM	3376	CD1	PHE A	427	16.714	17.247	59.686	1.00 29.97
	ALON								
			CD2	PHR 2	1 427	17 772	19 084	60 RD5	1 00 28 71
60	MOTA	3377		PHE A		17.773	19.084	60.805	1.00 28.71
60	MOTA MOTA	3377 3378	CE1	PHE A	427	17.730	17.194	58.733	1.00 27.72
60	MOTA	3377 3378 3379	CE1		427				
60	MOTA MOTA	3377 3378	CE1	PHE A	427	17.730 18.806	17.194 19.046	58.733	1.00 27.72
60	ATOM ATOM ATOM ATOM	3377 3378 3379 3380	CE1 CE2 CZ	PHE P PHE P	427 427 427	17.730 18.806 18.780	17.194 19.046 18.104	58.733 59.867 58.837	1.00 27.72 1.00 30.37 1.00 26.34
60	MOTA MOTA MOTA	3377 3378 3379	CE1 CE2	PHE A	427 427 427 428	17.730 18.806	17.194 19.046	58.733 59.867	1.00 27.72 1.00 30.37

Fry Separas

	MOTA	3383	С	LEU	A 4	428	18.989	16.047	65.303	1.00 32.08
	ATOM	3384	0	LEU			20.145	15.647	65.209	1.00 36.38
	ATOM	3385	СВ	LEU			18.510	18.362	66.223	1.00 24.68
_	ATOM	3386	CG	LEU	Α·	428	19.778	18.377	67.079	1.00 24.30
5	MOTA	3387	CD1	LEU	Α .	428	20.855	19.278	66.467	1.00 23.00
	ATOM	3388		LEU						
							19.446	18.856	68.481	1.00 16.41
	ATOM	3389	N	TYR	Α·	429	17.991	15.271	65.735	1.00 23.71
	ATOM	3390	CA	TYR	A	429	18.148	13.896	66.144	1.00 23.18
	MOTA	3391	С	TYR			18.311	12.967	64.976	1.00 26.62
10										
10	ATOM	3392	0	TYR			18.911	11.910	65.076	1.00 28.43
	ATOM	3393	СВ	TYR .	Α·	429	16.921	13.453	66.914	1.00 25.59
	ATOM	3394	CG	TYR	A	429	17.069	13.526	68.414	1.00 29.53
	ATOM	3395		TYR				14.714		1.00 31.11
							16.823		69.114	
	MOTA	3396	CD2	TYR .	Α	429	17.361	12.383	69.156	1.00 32.70
15	ATOM	3397	CE1	TYR .	A ·	429	16.916	14.769	70.510	1.00 32.23
	ATOM	3398		TYR			17.485	12.420	70.551	1.00 35.30
	ATOM	3399	CZ	TYR .			17.251	13.623	71.231	1.00 41.02
	MOTA	3400	OH	TYR .	A A	429	17.339	13.679	72.609	1.00 30.02
	ATOM	3401	N	SER .	A A	430	17.748	13.342	63.854	1.00 21.68
20	ATOM	3402	CA	SER					62.730	1.00 23.42
20							17.914	12.469		
	ATOM	3403	С	SER.			19.264	12.722	62.050	1.00 32.87
	MOTA	3404	0	SER .	A 4	430	19.879	11.819	61.467	1.00 35.11
	ATOM	3405	СВ	SER .			16.756	12.541	61.773	1.00 28.79
25	ATOM	3406	OG	SER .			17.089	13.475	60.777	1.00 49.56
25	ATOM	3407	N	TYR .	Α·	431	19.748	13.955	62.132	1.00 27.18
	ATOM	3408	CA	TYR .	A 4	431	21.017	14.296	61.537	1.00 27.14
	ATOM	3409	С	TYR			22.152	13.702	62.316	1.00 32.52
	ATOM	3410	0	TYR .			23.155	13.242	61.771	1.00 33.64
	ATOM	3411	CB	TYR .	Α	431	21.216	15.818	61.385	1.00 31.07
30	ATOM	3412	CG	TYR .	A 4	431	22.566	16.265	60.812	1.00 35.63
	MOTA	3413		TYR .			23.663	16.492	61.650	1.00 36.88
	ATOM	3414		TYR .			22.735	16.496	59.444	1.00 36.92
	ATOM	3415	CE1	TYR .	Α·	431	24.894	16.924	61.157	1.00 33.78
	ATOM	3416	CE2	TYR .	A 4	431	23.964	16.916	58.924	1.00 37.86
35	MOTA	3417	CZ	TYR			25.038	17.143	59.786	1.00 46.01
23										
	ATOM	3418	ОН	TYR .			26.247	17.573	59.294	1.00 51.28
	ATOM	3419	N	PHE .	A٠	432	21.964	13.728	63.606	1.00 29 <i>.</i> 66
	ATOM	3420	CA	PHE	A 4	432	22.939	13.215	64.526	1.00 29.12
	MOTA	3421	С	PHE			22.522	11.865	65.007	
40										1.00 42.64
40	MOTA	3422	0	PHE	A	432	22.499	11.593	66.197	1.00 46.77
	ATOM	3423	СВ	PHE .	A 4	432	23.063	14.157	65.719	1.00 30.24
	ATOM	3424	CG	PHE .	Α ,	432	23.962	15.327	65.401	1.00 33.03
	ATOM	3425								
				PHE			25.336	15.113	65.277	1.00 37.22
	MOTA	3426	CDZ	PHE	A '	432	23.470	16.624	65.232	1.00 30.70
45	ATOM	3427	CE1	PHE .	A 4	432	26.223	16.153	64.999	1.00 34.27
	ATOM	3428	CE2	PHE	Δ ,	432		17.667		1.00 31.71
				PHE						
	ATOM	3429	CZ				25.722	17.438	64.823	1.00 27.82
	MOTA	3430	N	LYS	A A	433	22.174	11.029	64.063	1.00 42.50
	ATOM	3431	CA	LYS	A	433	21.669	9.670	64.270	1.00 40.87
50	ATOM	3432	С	LYS .			22.718	8.751	64.908	1.00 46.17
- 0										
	ATOM	3433	0	LYS			22.405	7.734	65.513	1.00 48.48
	MOTA	3434	CB	LYS .	Α·	433	21.245	9.106	62.917	1.00 39.25
	ATOM	3435	CG	LYS	A	433	19.988	8.241	63.017	1.00 84.17
	ATOM	3436	CD	LYS						
55							18.925	8.660	62.000	1.00100.00
رر	ATOM	3437	CE	LYS .			17.523	8.172	62.384	1.00100.00
	ATOM	3438	NZ	LYS	A ·	433	16.525	9.119	61.884	1.00100.00
	ATOM	3439	N	ASP			24.002	9.112	64.697	1.00 45.20
	ATOM	3440	CA	ASP			25.083	8.349	65.321	1.00 47.80
	ATOM	3441	С	ASP.			25.201	8.684	66.802	1.00 50.78
60	ATOM	3442	0	ASP .	A	434	25.474	7.845	67.653	1.00 55.76
	MOTA	3443	CB	ASP			26.405		64.562	1.00 53.91
								8.567		
	ATOM	3444	CG	ASP			26.123	8.474	63.069	1.00 93.32
	MOTA	3445	OD1	ASP .	A 4	434	25.744	7.573	62.325	1.00 96.22
	ATOM	3446		ASP .			26.119	9.664	62.753	1.00100.00
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	MOTA	3447	N	LYS A	435	25.015	9.978	67.085	1.00 38.82
	ATOM	3448	CA	LYS A		24.974	10.404	68.468	1.00 34.57
	ATOM	3449	c	LYS A		23.549	10.749	68.881	1.00 39.87
	ATOM	3450	ō	LYS A		23.070	11.840	68.693	1.00 40.34
5	ATOM	3451	СВ	LYS A		25.864	11.631	68.615	1.00 34.69
•	ATOM	3452	CG	LYS A		27.064	11.595	67.679	1.00 40.86
	ATOM	3453	CD	LYS A		27.703	12.975	67.532	1.00 51.04
	ATOM	3454	CE	LYS A		29.242	12.904	67.557	1.00 24.08
	ATOM	3455	NZ	LYS A		29.822	13.990	66.760	1.00 45.26
10	MOTA	3456	N	VAL A		22.843	9.728	69.414	1.00 38.07
10	ATOM	3457	CA	VAL A		21.601	10.036	70.111	1.00 36.86
	ATOM	3458	C	VAL A		21.846	10.129	71.608	1.00 30.00
	ATOM	3459	o	VAL A		21.289	10.123	72.300	1.00 46.42
	ATOM	3460	СВ	VAL A		20.567	8.923	69.816	1.00 37.37
15				VAL A		19.944	9.143	68.446	1.00 37.37
13	MOTA	3461						69.854	1.00 36.24
	ATOM	3462		VAL A		21.227	7.556	72.099	1.00 43.61
	MOTA	3463	N	ASP A		22.718	9.232		
	ATOM	3464	CA	ASP A		23.044	9.222	73.522	1.00 41.43
20	ATOM	3465	C	ASP A		23.657	10.546	73.958	1.00 45.71
20	ATOM	3466	0	ASP A		23.554	10.956	75.107	1.00 49.89
,	ATOM	3467	CB	ASP A		24.022	8.082	73.776	1.00 43.84
	MOTA	3468	CG	ASP A		23.281	6.752	73.691	1.00 72.47
	MOTA	3469		ASP A		22.062	6.769	73.823	1.00 74.64
25	ATOM	3470		ASP A		23.933	5.730	73.481	1.00 86.09
25	ATOM	3471	N	VAL A		24.333	11.324	73.122	1.00 40.21
	MOTA	3472	CA	VAL A		24.807	12.624	73.577	1.00 40.97
	ATOM	3473	С	VAL A		23.621	13.582	73.668	1.00 41.86
	MOTA	3474	0	VAL A		23.368	14.276	74.657	1.00 39.95
20	ATOM	3475	CB	VAL A		25.875	13.165	72.615	1.00 47.47
30	MOTA	3476		VAL A		26.438	14.523	73.051	1.00 47.51
	ATOM	3477	CG2	VAL A		26.996	12.149	72.440	1.00 47.51
	MOTA	3478	N	LEU A		22.876	13.595	72.585	1.00 37.91
	MOTA	3479	CA	LEU A		21.729	14.442	72.507	1.00 36.21
2.5	ATOM	3480	С	LEU A		20.850	14.190	73.695	1.00 40.03
35	MOTA	3481	0	LEU A		20.214	15.064	74.255	1.00 42.22
	MOTA	3482	CB	LEU A	439	20.949	14.180	71.210	1.00 33.84
	MOTA	3483	CG	LEU A		21.552	14.939	70.039	1.00 32.80
	MOTA	3484		LEU A		20.813	14.538	68.775	1.00 34.08
40	ATOM	3485	CD2	LEU A		21.435	16.434	70.258	1.00 23.80
40	ATOM	3486	N	ASN A		20.810	12.953	74.076	1.00 34.03
	ATOM	3487	CA	ASN A		19.971	12.603	75.187	1.00 34.00
	MOTA	3488	С	ASN A		20.494	13.093	76.532	1.00 40.95
	ATOM	3489	0	ASN A		19.816	12.995	77.544	1.00 42.09
4.5	MOTA	3490	CB	ASN A		19.681	11.095	75.178	1.00 24.89
45	MOTA	3491	CG	ASN A	440	18.790	10.635	74.028	1.00 46.52
	ATOM	3492		ASN A		19.005	9.537	73.480	1.00 58.82
	MOTA	3493	ND2	ASN A	440	17.769	11.440	73.680	1.00 31.11
	MOTA	3494	N	GLN A	441	21.707	13.623	76.531	1.00 36.98
	ATOM	3495	CA	GLN A	441	22.339	14.095	77.744	1.00 35.47
50	ATOM	3496	С	GLN A		21.879	15.478	78.067	1.00 36.00
	ATOM	3497	0	GLN A	441	22.137	16.029	79.142	1.00 34.96
	ATOM	3498	CB	GLN A	441	23.878	14.109	77.581	1.00 38.10
	ATOM	3499	CG	GLN A	441	24.504	12.692	77.422	1.00 52.06
	ATOM	3500	CD	GLN A	441	25.954	12.730	76.955	1.00 81.69
55	ATOM	3501	OE1	GLN A	441	26.476	13.796	76.609	1.00 74.46
	ATOM	3502	NE2	GLN A	441	26.616	11.574	76.972	1.00 91.09
	ATOM	3503	N	VAL A	442	21.197	16.067	77.112	1.00 31.86
	ATOM	3504	CA	VAL A	442	20.753	17.411	77.384	1.00 32.78
	ATOM	3505	C	VAL A	442	19.354	17.468	77.970	1.00 38.24
60	ATOM	3506	0	VAL A		18.468	16.700	77.588	1.00 42.83
	MOTA	3507	СВ	VAL A		20.845	18.277	76.159	1.00 34.84
	ATOM	3508		VAL A		21.430	17.435	75.020	1.00 34.65
	ATOM	3509		VAL A		19.441	18.705	75.811	1.00 33.21
	ATOM	3510	N	ASP A		19.172	18.388	78.908	1.00 25.60

	ATOM	3511	CA	ASP A	443	17.931	18.634	79.616	1.00 24.57
	ATOM	3512	С	ASP A	443	16.996	19.533	78.791	1.00 32.14
	ATOM	3513	Ö						
			_	ASP A		16.744	20.732	79.073	1.00 34.77
_	ATOM	3514	CB	ASP A	443	18.332	19.272	80.957	1.00 27.11
5	ATOM	3515	CG	ASP A	443	17.216	19.413	81.901	1.00 39.99
	ATOM	3516	ODI	ASP A	443	16.063	19.234	81.573	1.00 44.78
	ATOM	3517		ASP A		17.631	19.753	83.094	1.00 56.66
	ATOM	3518	N	TRP A	444	16.525	18.914	77.722	1.00 28.30
	MOTA	3519	CA	TRP A	444	15.614	19.507	76.757	1.00 26.27
10	ATOM	3520	С	TRP A		14.460	20.296	77.416	1.00 31.52
10							_		
	MOTA	3521	0	TRP A	444	14.102	21.409	76.988	1.00 34.63
	ATOM	3522	CB	TRP A	444	15.067	18.398	75.799	1.00 21.47
	MOTA	3523	CG	TRP A	444	16.095	17.951	74.806	1.00 22.03
		3524							
16	ATOM		CD1	TRP A		16.675	16.718	74.736	1.00 25.16
15	MOTA	3525	CD2	TRP A	444	16.733	18.738	73.776	1.00 20.36
	MOTA	3526	NE1	TRP A	444	17.623	16.677	73.738	1.00 23.97
	ATOM	3527	CE2	TRP A		17.688	17.906	73.138	1.00 24.71
	MOTA	3528	CE3	TRP A		16.596	20.045	73.342	1.00 20.86
	ATOM	3529	CZ2	TRP A	444	18.448	18.345	72.060	1.00 24.51
20	ATOM	3530	CZ3	TRP A	444	17.353	20.471	72.264	1.00 22.88
	ATOM	3531	CH2	TRP A		18.281	19.643	71.643	1.00 23.48
	MOTA	3532	N	ASN A		13.855	19.711	78.457	1.00 24.92
	ATOM	3533	CA	ASN A	445	12.723	20.326	79.113	1.00 26.30
	ATOM	3534	С	ASN A		13.040	21.677	79.729	1.00 30.17
25	ATOM	3535							
23			0	ASN A		12.291	22.660	79.547	1.00 31.86
	MOTA	3536	CB	ASN A	445	11.987	19.382	80.094	1.00 40.83
	ATOM	3537	CG	ASN A	445	10.946	20.033	81.020	1.00 87.07
	ATOM	3538	OD1	ASN A	445	11.271	20.635	82.065	1.00 86.38
	ATOM	3539		ASN A					
30						9.670	19.848	80.688	1.00 71.65
30	ATOM	3540	N	ALA A	446	14.147	21.687	80.436	1.00 22.70
	ATOM	3541	CA	ALA A	446	14.583	22.886	81.073	1.00 24.45
	ATOM	3542	С	ALA A		14.886	23.896	79.990	1.00 30.52
	ATOM	3543	0	ALA A		14.324	25.001	79.936	1.00 33.92
	MOTA	3544	CB	ALA A	446	15.814	22.543	81.900	1.00 25.68
35	ATOM	3545	N	TRP A	447	15.776	23.494	79.102	1.00 25.24
	ATOM	3546	CA	TRP A		16.162	24.384	78.034	1.00 26.83
		3547							
	ATOM		С	TRP A		14.989	24.912	77.223	1.00 31.32
	ATOM	3548	0	TRP A	447	14.971	26.089	76.875	1.00 30.48
	ATOM	3549	CB	TRP A	447	17.166	23.725	77.062	1.00 25.78
40	ATOM	3550	CG	TRP A		18.625	23.815	77.421	1.00 26.60
	ATOM	3551	CD1	TRP A		19.343	22.840	78.046	1.00 28.89
	ATOM	3552	CD2	TRP A	447	19.554	24.896	77.165	1.00 26.16
	ATOM	3553	NE1	TRP A	447	20.654	23.217	78.197	1.00 27.23
	ATOM	3554	CE2	TRP A	447	20.822	24.476	77.660	1.00 29.00
45									
40	ATOM	3555	CE3	TRP A	44/	19.435	26.162	76.607	1.00 27.56
	ATOM	3556	CZ2	TRP A	447	21.954	25.290	77.583	1.00 27.95
	ATOM	3557	CZ3	TRP A	447	20.554	26.966	76.538	1.00 29.93
	ATOM	3558		TRP A		21.792	26.539	77.035	1.00 30.16
50	ATOM	3559	N	LEU A		14.029	24.034	76.893	1.00 26.54
50	ATOM	3560	CA	LEU A	448	12.896	24.421	76.052	1.00 26.92
	ATOM	3561	С	LEU A		11.734	25.064	76.779	1.00 36.15
	ATOM	3562		LEU A					
			0			11.089	26.031	76.304	1.00 31.19
	ATOM	3563	CB	LEU A	448	12.338	23.197	75.307	1.00 25.26
	ATOM	3564	CG	LEU A	448	13.311	22.545	74.332	1.00 28.29
55	MOTA	3565		LEU A		12.597	21.455		1.00 30.49
								73.530	
	MOTA	3566		LEU A		13.879	23.576	73.375	1.00 21.94
	ATOM	3567	N	TYR A	449	11.472	24.455	77.924	1.00 33.14
	ATOM	3568	CA	TYR A		10.373	24.835	78.747	1.00 30.64
60	MOTA	3569	С	TYR A		10.646	25.525	80.041	1.00 34.31
60	ATOM	3570	0	TYR A	449	9.750	26.191	80.529	1.00 41.98
	ATOM	3571	CB	TYR A	449	9.400	23.674	78.916	1.00 29.14
	MOTA	3572	CG	TYR A		9.212			
							23.089	77.556	1.00 26.50
	MOTA	3573		TYR A		8.762	23.869	76.485	1.00 24.36
	ATOM	3574	CD2	TYR A	449	9.560	21.762	77.325	1.00 28.48
					-				

	ATOM	3575	CE1	TYR A	449	8.626	23.331	75.202	1.00 17.56
		3576	CE2	TYR A		9.427	21.205	76.054	1.00 29.93
	MOTA								1.00 23.55
	ATOM	3577	cz	TYR A		8.959	21.988	74.998	
_	ATOM	3578	OH	TYR A		8.840	21.415	73.762	1.00 39.47
5	MOTA	3579	N	SER A	450	11.806	25.413	80.644	1.00 22.72
	ATOM	3580	CA	SER A	450	11.902	26.149	81.900	1.00 21.21
	ATOM	3581	C	SER A		12.278	27.625	81.749	1.00 23.98
	ATOM	3582	Ô	SER A		12.966	28.035	80.810	1.00 27.17
10	MOTA	3583	СВ	SER A		12.666	25.436	83.010	1.00 24.83
10	ATOM	3584	OG	SER A	450	12.540	24.046	82.871	1.00 36.29
	ATOM	3585	N	PRO A	451	11.806	28.430	82.689	1.00 19.76
	ATOM	3586	CA	PRO A	451	12.111	29.840	82.669	1.00 18.20
	ATOM	3587	С	PRO A		13.461	29.988	83.271	1.00 21.72
	ATOM	3588	Õ	PRO A		14.022	29.015	83.742	1.00 24.34
15									
15	MOTA	3589	CB	PRO A		11.185	30.485	83.695	1.00 18.85
	ATOM	3590	CG	PRO A		10.836	29.390	84.677	1.00 23.13
	ATOM	3591	CD	PRO A	451	11.002	28.078	83.900	1.00 19.61
	ATOM	3592	N	GLY A	452	13.959	31.212	83.307	1.00 18.97
	ATOM	3593	CA	GLY A		15.241	31.444	83.922	1.00 19.09
20	ATOM	3594	C	GLY A		16.382	31.107	83.016	1.00 26.20
20									1.00 27.37
	ATOM	3595	0	GLY A		16.191	30.916	81.819	
	ATOM	3596	N	LEU A		17.557	31.057	83.650	1.00 25.48
	ATOM	3597	CA	LEU A	453	18.843	30.750	83.029	1.00 25.32
	ATOM	3598	С	LEU A	453	18.906	29.322	82.629	1.00 26.21
25	ATOM	3599	0	LEU A		18.400	28.458	83.322	1.00 25.04
	ATOM	3600	СB	LEU A		20.042	31.119	83.938	1.00 25.46
									1.00 31.82
	MOTA	3601	CG	LEU A		20.280	32.632	83.904	
	ATOM	3602		LEU A		21.019	33.087	85.119	1.00 31.78
	ATOM	3603	CD2	LEU A	453	21.046	33.056	82.651	1.00 41.50
30	ATOM	3604	N	PRO A	454	19.510	29.082	81.489	1.00 22.97
	ATOM	3605	CA	PRO A	454	19.585	27.747	81.003	1.00 21.60
	ATOM	3606	C	PRO A		20.145	26.890	82.075	1.00 26.94
	ATOM	3607		PRO A		20.923	27.359	82.893	1.00 29.09
			0						
25	ATOM	3608	СВ	PRO A		20.489	27.780	79.768	1.00 22.34
35	MOTA	3609	CG	PRO A	454	20.777	29.232	79.470	1.00 23.69
	ATOM	3610	CD	PRO A	454	20.136	30.054	80.556	1.00 20.82
	ATOM	3611	N	PRO A	455	19.721	25.648	82.067	1.00 25.61
	ATOM	3612	CA	PRO A	455	20.167	24.683	83.031	1.00 24.27
	ATOM	3613	C	PRO A		21.661	24.568	82.991	1.00 30.95
40									1.00 33.47
40	ATOM	3614	0	PRO A		22.225	24.062	83.920	
	ATOM	3615	CB	PRO A		19.631	23.320	82.592	1.00 25.04
	ATOM	3616	CG	PRO A	455	19.149	23.497	81.162	1.00 33.02
	ATOM	3617	CD	PRO A	455	19.111	25.005	80.888	1.00 28.49
	MOTA	3618	N	ILE A	456	22.305	25.002	81.911	1.00 27.91
45	ATOM	3619	CA	ILE A		23.764	24.893	81.821	1.00 27.82
	ATOM	3620	C	ILE A		24.395			1.00 34.73
	MOTA	3621	0	ILE A		23.737	26.769	80.293	1.00 37.01
	MOTA	3622	CB	ILE A		24.228	23.540	81.259	1.00 31.34
	MOTA	3623	CG1	ILE A	456	25.721	23.305	81.417	1.00 29.78
50	ATOM	3624	CG2	ILE A	456	23.865	23.369	79.788	1.00 32.96
	ATOM	3625	CD1	ILE A	456	26.054	21.852	81.116	1.00 23.94
	ATOM	3626	N	LYS A		25.680	26.252	81.334	1.00 30.52
		3627	CA				27.335	80.707	1.00 30.21
	ATOM			LYS A		26.405			
5.5	ATOM	3628	С	LYS A		27.515	26.808	79.835	1.00 32.14
55	ATOM	3629	0	LYS A		28.328	26.037	80.273	1.00 33.07
	MOTA	3630	CB	LYS A	457	26.953	28.264	81.749	1.00 32.38
	ATOM	3631	CG	LYS A	457	27.818	29.327	81.121	1.00 34.64
	ATOM	3632	CD	LYS A		28.288	30.306	82.166	1.00 13.41
	ATOM	3633	CE				31.596	81.565	1.00 13.41
60				LYS A		28.803			
UU	ATOM	3634	NZ	LYS A		28.974	32.643	82.595	1.00 26.77
	MOTA	3635	N	PRO A		27.567	27.208	78.589	1.00 27.50
	ATOM	3636	CA	PRO A	458	28.630	26.675	77.737	1.00 26.85
	ATOM	3637	С	PRO A	458	29.994	27.147	78.185	1.00 26.89
	ATOM	3638	Ó	PRO A		30.128	27.876	79.167	1.00 24.86
			-						

	MOTA	3639	СВ	PRO A	4 458	28.33	35 27.191	76.316	1.00 29.	41
	ATOM	3640	CG	PRO A		26.95			1.00 33.	
	ATOM	3641	CD	PRO A		26.5			1.00 26.	
5	ATOM	3642	N	ASN A		31.00			1.00 22.	
J	ATOM	3643	CA	ASN A		32.3			1.00 22.	
	ATOM	3644	C	ASN A		32.75			1.00 30.	
	MOTA MOTA	3645 3646	0	ASN A		32.45			1.00 32.	
	ATOM	3647	CB CG	ASN A		33.33 32.70			1.00 25.	
10	ATOM	3648		ASN A		32.6			1.00 49.	
- •	ATOM	3649		ASN A		32.4			1.00 38.	
	ATOM	3650	N	TYR A		33.44			1.00 25.	
	ATOM	3651	CA	TYR A		33.85			1.00 23.	
	ATOM	3652	С	TYR A		35.29			1.00 34.	
15	MOTA	3653	0	TYR A	4 460	35.84			1.00 35.	
	ATOM	3654	CB	TYR A	460	33.12	20 31.708	77.171	1.00 24.	38
	MOTA	3655	CG	TYR A	460	31.63	36 31.631	77.024	1.00 26	98
	ATOM	3656	CD1	TYR A	460	31.02			1.00 30.	69
20	ATOM	3657	CD2	TYR A		30.83			1.00 25.	
20	ATOM	3658		TYR A		29.64			1.00 28.	
	ATOM	3659	CE2	TYR A		29.45		-	1.00 25.	
	ATOM ATOM	3660 3661	CZ	TYR A		28.86			1.00 24.	
	MOTA	3662	OH N	TYR A		27.51 35.89			1.00 28.	
25	ATOM	3663	CA	ASP A		37.26			1.00 30. 1.00 27.	
	ATOM	3664	c c	ASP A		37.3			1.00 27.	
	ATOM	3665	Ō	ASP A		36.37			1.00 26	
	ATOM	3666	СВ	ASP A		37.82			1.00 27	
••	MOTA	3667	CG	ASP A	461	39.13			1.00 32	.53
30	ATOM	3668		ASP A		39.26		74.334	1.00 39.	66
	MOTA	3669		ASP A		40.13		74.306	1.00 44.	. 34
	ATOM	3670	N	MET A		38.3		77.224	1.00 17.	
	ATOM	3671	CA	MET A		38.39			1.00 18.	
35	ATOM ATOM	3672 3673	C	MET A		39.29		77.485	1.00 24.	
33	ATOM	3674	O CB	MET A		39.33 38.81			1.00 24.	
	ATOM	3675	CG	MET A		37.80			1.00 22.	
	MOTA	3676	SD	MET A		36.16			1.00 33.	
	ATOM	3677	CE	MET A		36.42			1.00 27.	
40	MOTA	3678	N	THR A	463	40.06			1.00 22.	
	MOTA	3679	CA	THR A	463	41.01	15 36.285		1.00 22.	64
	ATOM	3680	С	THR A		40.69	90 37.738	75.961	1.00 33.	12
	ATOM	3681	0	THR A		41.37			1.00 35.	
45	ATOM	3682	CB	THR A		41.57			1.00 29.	
45	MOTA	3683		THR A		41.93			1.00 26.	
	ATOM	3684 3685	CG2	THR A		42.79			1.00 18.	
	MOTA MOTA	3686	n Ca	LEU A		39.70		75.177	1.00 30.	
	ATOM	3687	C	LEU A		39.29 38.49			1.00 29.	
50	ATOM	3688	Õ	LEU A		38.43		76.422	1.00 34.	
	ATOM	3689	СВ	LEU A		38.53		73.743	1.00 29.	
	MOTA	3690	CG	LEU A		39.39		72.527	1.00 33.	
	ATOM	3691	CD1	LEU A	464	38.60		71.217	1.00 32.	
	MOTA	3692	CD2	LEU A	464	40.64	18 40.261	72.499	1.00 26.	22
55	ATOM	3693	N	THR A		37.85	55 39.167	76.964	1.00 30.	71
	ATOM	3694	CA	THR A		37.00			1.00 28.	58
	MOTA	3695	C	THR A		37.80		79.324	1.00 30.	
	ATOM ATOM	3696 3697	O CB	THR A		37.53		80.030	1.00 31.	
60	ATOM	3698	CB OG1	THR A		36.01		78.372	1.00 35.	
	MOTA	3699		THR A		35.10 35.25		77.296 79.690	1.00 50.	
	ATOM	3700	N	ASN A		38.80		79.568	1.00 24.	
	ATOM	3701	CA	ASN A		39.63		80.688	1.00 23.	
	MOTA	3702	С	ASN A		39.89		80.967	1.00 28.	

	ATOM	3703	0	ASN A	466	39.763	41.270	82.120	1.00 27.03
	ATOM	3704	СВ	ASN A		40.921	38.543	80.629	1.00 20.30
	ATOM	3705	CG	ASN A		40.709	37.145	81.155	1.00 32.26
	ATOM	3706		ASN A		41.384	36.191	80.723	1.00 29.29
5	ATOM	3707		ASN A		39.775	37.015	82.111	1.00 28.19
	ATOM	3708	N	ALA A		40.306	41.666	79.967	1.00 27.97
	ATOM	3709	CA	ALA A		40.587	43.079	80.295	1.00 26.66
	ATOM	3710	С	ALA A		39.352	43.827	80.720	1.00 31.78
	ATOM	3711	0	ALA A		39.406	44.845	81.393	1.00 31.71
10	ATOM	3712	CB	ALA A	467	41.365	43.837	79.256	1.00 25.99
	ATOM	3713	N	CYS A	468	38.217	43.277	80.336	1.00 28.06
	ATOM	3714	CA	CYS A	468	36.942	43.862	80.693	1.00 25.80
	ATOM	3715	С	CYS A	468	36.668	43.619	82.165	1.00 26.47
	ATOM	3716	0	CYS A	468	36.469	44.517	82.963	1.00 27.99
15	ATOM	3717	СВ	CYS A	468	35.882	43.376	79.696	1.00 24.56
	ATOM	3718	SG	CYS A	468	36.455	43.873	78.049	1.00 27.76
	ATOM	3719	N	ILE A	469	36.752	42.384	82.540	1.00 24.34
	ATOM	3720	CA	ILE A	469	36.599	42.052	83.921	1.00 25.23
	ATOM	3721	С	ILE A	469	37.560	42.800	84.876	1.00 28.13
20	ATOM	3722	0	ILE A		37.175	43.220	85.950	1.00 29.54
	ATOM	3723	СВ	ILE A	469	36.858	40.574	84.068	1.00 27.23
	MOTA	3724	CG1	ILE A	469	35.956	39.801	83.112	1.00 26.94
	MOTA	3725	CG2	ILE A	469	36.537	40.208	85.496	1.00 25.56
	ATOM	3726	CD1	ILE A	469	36.247	38.298	83.085	1.00 45.50
25	ATOM	3727	N	ALA A	470	38.830	42.960	84.534	1.00 23.28
	ATOM	3728	CA	ALA A	470	39.749	43.621	85.461	1.00 22.23
	ATOM	3729	С	ALA A	470	39.392	45.038	85.808	1.00 30.29
	MOTA	3730	0	ALA A	470	39.474	45.451	86.986	1.00 32.82
	ATOM	3731	CB	ALA A	470	41.218	43.502	85.074	1.00 21.98
30	MOTA	3732	N	LEU A		39.007	45.760	84.759	1.00 23.53
	ATOM	3733	CA	LEU A		38.643	47.173	84.834	1.00 18.39
	MOTA	3734	С	LEU A		37.333	47.373	85.569	1.00 26.57
	MOTA	3735	0	LEU A	471	37.210	48.208	86.462	1.00 30.48
26	ATOM	3736	CB	LEU A		38.676	47.827	83.444	1.00 15.51
35	ATOM	3737	CG	LEU A		38.671	49.325	83.539	1.00 24.20
	MOTA	3738		LEU A		39.754	49.795	84.513	1.00 24.86
	ATOM	3739		LEU A		38.876	49.941	82.156	1.00 26.35
	ATOM	3740	N	SER A		36.351	46.570	85.222	1.00 25.31
40	ATOM	3741	CA	SER A		35.080	46.674	85.901	1.00 27.56
40	ATOM	3742	C	SER A		35.260	46.477	87.396	1.00 33.46
	ATOM	3743	0	SER A		34.800	47.292	88.214	1.00 32.85
	ATOM	3744	CB	SER A		33.989	45.714	85.393	1.00 32.06
	ATOM	3745	OG	SER A		34.492	44.774	84.470	1.00 48.56
45	ATOM	3746	N	GLN A		35.911	45.350	87.736	1.00 27.52
40	ATOM	3747	CA	GLN A		36.170	44.971	89.108	1.00 24.10
	ATOM	3748		GLN A		36.866			
	ATOM	3749	0	GLN A		36.534	46.458	90.969	1.00 21.62
	ATOM	3750	CB	GLN A		36.994	43.671	89.148	1.00 25.86
50	ATOM	3751	CG	GLN A		36.128	42.402	89.118	1.00 32.72
50	ATOM ATOM	3752 3753	CD	GLN A		34.970	42.504	90.090	1.00 46.08
	ATOM	3754		GLN A		35.165 33.761	42.422 42.692	91.308 89.559	1.00 40.73 1.00 28.28
	ATOM	3755	NEZ	ARG A		37.855	46.656	89.161	1.00 24.00
	MOTA	3756	CA	ARG A		38.562	47.765	89.779	1.00 24.00
55	ATOM	3757	C	ARG A		37.609	48.893	90.141	1.00 29.31
	ATOM	3758	0	ARG A		37.620	49.447	91.242	1.00 23.31
	ATOM	3759	СВ	ARG A		39.682	48.290	88.898	1.00 33.13
	ATOM	3760	CG	ARG A		40.866	47.352	88.831	1.00 20.19
	MOTA	3761	CD	ARG A		41.871	47.869	87.832	1.00 28.48
60	ATOM	3762	NE	ARG A		42.258	49.245	88.093	1.00 34.41
	ATOM	3763	CZ	ARG A		42.230	49.243	87.185	1.00 40.09
	ATOM	3764		ARG A		43.220	49.376	86.019	1.00 31.23
	ATOM	3765		ARG A		43.220	51.199	87.444	1.00 20.43
	ATOM	3766	N	TRP A		36.791	49.259	89.178	1.00 25.32
	111 011	2.00	.,	TUE A	. 110	30.731	37.233	00.170	1.00 20.02

		3.0001	27.67	~ 3	<b>#</b> DD		475	25 252	50 200	00 400	1 00 06 77
		MOTA	3767	CA	TRP			35.862	50.332	89.400	1.00 26.77
		ATOM	3768	С	TRP			34.881	49.962	90.474	1.00 27.52
		ATOM	3769	0	TRP			34.749	50.633	91.475	1.00 29.64
	5	ATOM	3770	CB	TRP			35.199	50.804	88.093	1.00 27.95
	5	ATOM	3771 3772	CG	TRP TRP			36.047	51.819	87.361	1.00 32.11 1.00 35.65
		ATOM	3773		TRP			36.873	51.592	86.298	
		MOTA	3774		TRP			36.161	53.217	87.648	1.00 31.62
		ATOM	3775		TRP			37.484	52.748 53.763	85.904	1.00 34.92
	10	ATOM ATOM	3776		TRP			37.054		86.707	1.00 36.16
	10	ATOM	3777		TRP			35.588 37.372	54.040 55.112	88.606 86.719	1.00 32.63 1.00 36.24
		ATOM	3778		TRP			35.897	55.375	88.616	1.00 36.24
		ATOM	3779		TRP			36.777	55.901	87.685	1.00 34.74
		ATOM	3780	N	ILE			34.234	48.847	90.279	1.00 26.36
	15	ATOM	3781	CA	ILE			33.268	48.386	91.235	1.00 28.33
		ATOM	3782	C.	ILE			33.771	48.315	92.681	1.00 20.33
		ATOM	3783	ō	ILE			33.056	48.595	93.637	1.00 34.20
		ATOM	3784	СВ	ILE			32.722	47.070	90.761	1.00 32.23
		ATOM	3785		ILE			31.993	47.308	89.443	1.00 30.49
	20	ATOM	3786		ILE			31.864	46.376	91.851	1.00 34.86
_		ATOM	3787		ILE			31.595	46.005	88.756	1.00 33.04
		ATOM	3788	N	THR			35.010	47.934	92.860	1.00 27.27
		ATOM	3789	CA	THR			35.558	47.846	94.194	1.00 24.15
		ATOM	3790	С	THR			36.416	49.052	94.523	1.00 27.30
	25	ATOM	3791	0	THR			37.120	49.065	95.519	1.00 27.36
		ATOM	3792	CB	THR			36.402	46.578	94.257	1.00 32.13
		ATOM	3793	OG1	THR	Α	477	37.593	46.848	93.557	1.00 29.48
		ATOM	3794	CG2	THR	А	477	35.634	45.470	93.530	1.00 16.94
	• •	ATOM	3795	N	ALA	А	478	36.371	50.097	93.695	1.00 22.33
	30	ATOM	3796	CA	ALA	Α	478	37.164	51.260	93.988	1.00 20.44
		ATOM	3797	С	ALA			36.890	51.843	95.390	1.00 32.94
		ATOM	3798	0	ALA			35.786	51.756	95.922	1.00 34.38
		ATOM	3799	СВ	ALA			36.938	52.343	92.942	1.00 19.26
	25	ATOM	3800	N	LYS			37.931	52.469	95.970	1.00 29.65
	35	ATOM	3801	CA	LYS			37.899	53.168	97.243	1.00 27.30
		ATOM	3802	C	LYS			38.575	54.512	97.051	1.00 36.54
		ATOM	3803	O CP	LYS			39.378	54.692	96.118	1.00 34.13
		ATOM ATOM	3804 3805	CB CG	LYS LYS			38.457 37.696	52.410 51.116	98.417 98.631	1.00 28.01 1.00 51.38
	40	ATOM	3806	CD	LYS			37.115		100.021	1.00 51.36
		ATOM	3807	CE	LYS			35.804	50.103	99.931	1.00 87.12
		ATOM	3808	NZ	LYS			35.711		100.841	1.00 85.55
		ATOM	3809	N	GLU			38.241	55.477	97.900	1.00 36.30
		ATOM	3810	CA	GLU			38.843	56.793	97.751	1.00 34.79
	45	ATOM	3811	C	GLU			40.261	56.707	97.220	1.00 34.79
		ATOM		ō	GLU			40.613			
		ATOM	3813	СВ	GLU			38.899	57.565	99.078	1.00 36.21
		ATOM	3814	CG	GLU			37.709	58.500	99.303	1.00 63.85
. :		MOTA	3815	CD	GLU			37.601	59.511	98.214	1.00100.00
	50	ATOM	3816	OE1	GLU	Α	480	38.457	59.648	97.357	1.00100.00
:		ATOM	3817		GLU			36.491	60.209	98.288	1.00100.00
•		MOTA	3818	N	ASP	Α	481	41.080	55.946	97.904	1.00 24.69
		MOTA	3819	CA	ASP			42.451	55.860	97.519	1.00 23.87
		ATOM	3820	С	ASP	Α	481	42.771	55.314	96.132	1.00 34.51
	55	MOTA	3821	0	ASP	Α	481	43.925	55.312	95.721	1.00 39.44
<u> </u>		ATOM	3822	CB	ASP	А	481	43.262	55.155	98.611	1.00 25.29
		ATOM	3823	CG	ASP			43.072	53.668	98.575	1.00 39.58
: :		ATOM	3824		ASP			42.471	53.029	97.708	1.00 46.00
	(0	ATOM	3825		ASP			43.698	53.107	99.567	1.00 39.59
: :	60	ATOM	3826	N	ASP			41.788	54.881	95.373	1.00 30.70
		ATOM	3827	CA	ASP			42.098	54.379	94.024	1.00 31.73
. : :		ATOM	3828	С	ASP			41.725	55.307	92.859	1.00 34.17
2.1		ATOM	3829	0	ASP			42.158	55.150	91.717	1.00 35.45
		ATOM	3830	CB	ASP	Α	482	41.399	53.022	93.756	1.00 33.31

	ATOM	3831	CG	ASP A	482	41.686	51.970	94.779	1.00 38.90
	ATOM	3832		ASP A		42.810			
							51.514	94.992	1.00 42.45
	MOTA	3833	OD2	ASP A	482	40.606	51.625	95.440	1.00 40.17
	ATOM	3834	N	LEU A	483	40.863	56.246	93.146	1.00 29.93
5									
J	MOTA	3835	CA	LEU A		40.352	57.159	92.160	1.00 27.80
	MOTA	3836	С	LEU A	483	41.434	57.943	91.410	1.00 40.70
	ATOM	3837	0	LEU A	483	41.386	58.102	90.180	1.00 40.76
	MOTA	3838	CB	LEU A	483	39.265	58.049	92.819	1.00 22.54
	ATOM	3839	CG	LEU A	483	38.148	57.240	93.488	1.00 20.75
10	ATOM	3840	CD1	LEU A	483	37.170	58.165	94.197	1.00 19.29
	MOTA	3841	CD2	LEU A	483	37.389	56.467	92.414	1.00 21.46
	MOTA	3842	N	ASN A	484	42.410	58.446	92.162	1.00 36.15
	ATOM	3843	CA	ASN A					
						43.459	59.225	91.571	1.00 34.08
	ATOM	3844	С	ASN A	484	44.168	58.524	90.429	1.00 39.51
15	ATOM	3845	0	ASN A	484	44.456	59.091	89.359	1.00 38.59
	MOTA	3846	СB	ASN A		44.495	59.602	92.618	1.00 34.26
	ATOM	3847	CG	ASN A	484	45.807	59.955	91.941	1.00100.00
	ATOM	3848	001	ASN A	484	45.878	60.940	91.171	1.00100.00
	ATOM	3849	ND2	ASN A	484	46.836	59.134	92.186	1.00100.00
20	ATOM	3850	N	SER A	485	44.472	57.268	90.698	1.00 35.37
	ATOM	3851	CA	SER A	485	45.202	56.417	89.791	1.00 32.79
	ATOM	3852	С	SER A	485	44.522	56.140	88.484	1.00 32.26
	ATOM	3853	0	SER A	485	45.159	55.925	87.463	1.00 32.44
	MOTA	3854	CB	SER A		45.565	55.132	90.477	1.00 38.65
25									
23	ATOM	3855	OG	SER A	485	46.040	55.437	91.777	1.00 62.66
	ATOM	3856	N	PHE A	486	43.222	56.110	88.491	1.00 27.13
	ATOM	3857	CA	PHE A		42.631	55.809	87.233	1.00 28.26
	MOTA	3858	С	PHE A	486	43.193	56.772	86.264	1.00 32.12
	ATOM	3859	0	PHE A	486	43.423	57.910	86.604	1.00 32.02
30	ATOM	3860	CB	PHE A		41.101	55.819	87.198	1.00 31.01
50									
	MOTA	3861	CG	PHE A	486	40.471	54.807	88.132	1.00 27.04
	MOTA	3862	CD1	PHE A	486	40.504	53.425	87.911	1.00 22.43
	ATOM	3863		PHE A		39.805	55.293	89.253	1.00 21.40
	ATOM	3864	CEI	PHE A	486	39.896	52.538	88.804	1.00 19.69
35	ATOM	3865	CE2	PHE A	486	39.224	54.426	90.174	1.00 19.20
	ATOM	3866	CZ	PHE A		39.245	53.051	89.927	1.00 15.13
	ATOM	3867	N	ASN A	487	43.455	56.279	85.089	1.00 34.97
	MOTA	3868	CA	ASN A	487	44.032	57.092	84.070	1.00 38.06
	ATOM	3869	С	ASN A	487	43.491	56.622	82.758	1.00 43.55
40									
40	MOTA	3870	0	ASN A	487	42.951	55.537	82.604	1.00 46.30
	ATOM	3871	CB	ASN A	487	45.591	57.038	84.085	1.00 43.93
	ATOM	3872	CG	ASN A	487	46.196	58.169	83.302	1.00 56.10
	ATOM	3873		ASN A		46.057	58.189	82.077	1.00 42.12
	ATOM	3874	ND2	ASN A	487	46.829	59.112	84.007	1.00 65.62
45	ATOM	3875	N	ALA A		43.662	57.435	81.781	1.00 39.34
	ATOM	3876	CA	ALA A		43.201	57.055	80.472	1.00 38.25
	ATOM	3877	С	ALA A	488	44.024	55.900	79.809	1.00 43.58
	ATOM	3878	٥	ALA A	488	43.596	55.317	78.834	1.00 44.11
	ATOM	3879	CB	ALA A		43.153			1.00 37.54
50							58.314	79.621	
50	ATOM	3880	N	THR A	489	45.207	55.555	80.314	1.00 38.34
	ATOM	3881	CA	THR A	489	45.996	54.499	79.715	1.00 36.16
	ATOM	3882	С	THR A					1.00 45.74
						45.270	53.181	79.792	
	MOTA	3883	0	THR A	489	45.476	52.233	79.057	1.00 47.78
	MOTA	3884	CB	THR A	489	47.296	54.458	80.503	1.00 31.01
55	ATOM	3885							
J.J				THR A		46.961	54.457	81.872	1.00 35.33
	ATOM	3886	CG2	THR A	489	47.993	55.771	80.229	1.00 28.28
	ATOM	3887	N	ASP A		44.337	53.182	80.708	1.00 46.75
	MOTA	3888	CA	ASP A		43.560	52.018	80.972	1.00 51.49
	MOTA	3889	С	ASP A	490	42.759	51.515	79.786	1.00 52.21
60	ATOM	3890	0	ASP A		42.396	50.342	79.651	1.00 54.75
	ATOM	3891	CB	ASP A		42.676	52.345	82.184	1.00 54.04
	ATOM	3892	CG	ASP A	490	43.413	52.884	83.380	1.00 53.83
	ATOM	3893		ASP A		44.621	52.777	83.616	1.00 62.93
	MOTA	3894	OD2	ASP A	490	42.565	53.446	84.165	1.00 35.66

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		MOTA	3895	N	LEU A	491	42.486	52.450	78.938	1.00 42.42
		MOTA	3896	CA	LEU A	491	41.752	52.250	77.723	1.00 43.54
		ATOM	3897	С	LEU A	491	42.712	51.977	76.585	1.00 43.97
	_	ATOM	3898	0	LEU A	491	42.340	51.438	75.588	1.00 42.53
	5	ATOM	3899	CB	LEU A	491	40.984	53.528	77.421	1.00 44.89
		ATOM	3900	CG	LEU A		39.794	53.747	78.338	1.00 48.31
		ATOM	3901		LEU A		38.558	54.171	77.552	1.00 49.16
		MOTA	3902	CD2	LEU A	491	39.377	52.494	79.125	1.00 39.24
	••	MOTA	3903	N	LYS A	492	43.958	52.403	76.754	1.00 42.32
	10	MOTA	3904	CA	LYS A	492	44.999	52.320	75.696	1.00 44.57
		ATOM	3905	C	LYS A	492	44.826	51.165	74.680	1.00 49.08
		MOTA	3906	0	LYS A	492	44.810	51.343	73.473	1.00 49.66
		ATOM	3907	CB	LYS A	492	46.359	52.177	76.401	1.00 48.47
		MOTA	3908	CG	LYS A	492	47.487	52.883	75.629	1.00 88.73
	15	ATOM	3909	CD	LYS A	492	48.852	52.537	76.197	1.00100.00
		ATOM	3910	CE	LYS A	492	48.786	51.460	77.300	1.00100.00
		ATOM	3911	NZ	LYS A	492	50.103	50.896	77.541	1.00100.00
		ATOM	3912	N	ASP A		44.711	49.917	75.227	1.00 41.86
		MOTA	3913	CA	ASP A		44.664	48.740	74.372	1.00 40.17
	20	ATOM	3914	С	ASP A	493	43.220	48.162	74.215	1.00 44.29
		MOTA	3915	0	ASP A		43.031	46.973	73.889	1.00 42.00
		ATOM	3916	CB	ASP A	493	45.560	47.699	75.015	1.00 41.52
		ATOM	3917	CG	ASP A	493	47.021	48.130	74.956	1.00 67.01
		MOTA	3918	OD1	ASP A	493	47.467	48.451	73.856	1.00 77.10
	25	ATOM	3919		ASP A		47.678	48.131	75.984	1.00 57.19
		ATOM	3920	N	LEU A		42.193	49.005	74.475	1.00 40.69
		MOTA	3921	CA	LEU A		40.789	48.512	74.526	1.00 36.32
		ATOM	3922	С	LEU A		39.992	48.877	73.245	1.00 37.76
		ATOM	3923	0	LEU A		39.897	50.029	72.863	1.00 38.93
	30	ATOM	3924	CB	LEU A	494	40.098	49.125	75.733	1.00 32.52
		MOTA	3925	CG	LEU A	494	40.376	48.433	77.063	1.00 30.66
		MOTA	3926	CD1	LEU A	494	39.229	48.580	78.052	1.00 30.39
		MOTA	3927	CD2	LEU A	494	40.611	46.925	76.918	1.00 23.54
	2.5	MOTA	3928	N	SER A	495	39.477	47.825	72.631	1.00 25.56
	35	MOTA	3929	CA	SER A	495	38.674	48.017	71.457	1.00 22.23
		ATOM	3930	С	SER A	495	37.344	48.670	71.856	1.00 31.27
		ATOM	3931	0	SER A	495	36.968	48.706	73.038	1.00 31.21
		ATOM	3932	CB	SER A		38.380	46.705	70.795	1.00 20.88
	40	MOTA	3933	OG	SER A	495	37.192	46.143	71.317	1.00 33.60
	40	ATOM	3934	N	SER A		36.627	49.184	70.865	1.00 29.48
		MOTA	3935	CA	SER A		35.363	49.821	71.139	1.00 26.67
		MOTA	3936	С	SER A		34.495	48.747	71.744	1.00 29.54
		MOTA	3937	0	SER A		33.744	48.960	72.697	1.00 24.80
	4.5	MOTA	3938	CB	SER A		34.760	50.441	69.894	1.00 24.67
	45	MOTA	3939	OG	SER A		33.749	49.597	69.397	1.00 48.80
		MOTA	3940	N	HIS A		34.674	47.547	71.219	1.00 26.61
		ATOM	3941	CA	HIS A		33.949	46.383	71.750	1.00 29.22
-		MOTA	3942	С	HIS A		34.156	46.148	73.275	1.00 37.24
	50	ATOM	3943	0	HIS A		33.238	45.863	74.041	1.00 38.21
-	50	MOTA	3944	CB	HIS A		34.364	45.106	70.978	1.00 30.69
		ATOM	3945	CG	HIS A		34.182	45.348	69.545	1.00 34.29
-		MOTA	3946		HIS A		32.943	45.204	68.962	1.00 35.42
. :		MOTA	3947		HIS A		35.054	45.833	68.622	1.00 36.68
. :	55	MOTA	3948		HIS A		33.075	45.531	67.702	1.00 35.05
•	33	MOTA	3949		HIS A		34.330	45.932	67.462	1.00 35.88
		ATOM	3950	N	GLN A		35.406	46.243	73.715	1.00 33.56
		ATOM	3951	CA	GLN A		35.737	46.008	75.094	1.00 29.69
		ATOM	3952	С	GLN A		35.263	47.122	75.965	1.00 27.11
	60	ATOM	3953	0	GLN A		34.842	46.930	77.089	1.00 23.92
I :	60	ATOM	3954	CB	GLN A		37.221	45.659	75.248	1.00 29.95
** .		ATOM	3955	CG	GLN A		37.582	44.317	74.544	1.00 25.78
ī :		MOTA	3956	CD	GLN A		39.074	44.084	74.535	1.00 28.64
. i':		ATOM	3957		GLN A		39.796	44.891	73.960	1.00 26.62
		ATOM	3958	NE2	GLN A	498	39.561	43.049	75.218	1.00 20.96

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	ATOM	3959	N	LEU A 4		35.289	48.301	75.431		27.13
	ATOM	3960	CA	LEU A 4		34.819	49.396	76.229		29.32
	ATOM	3961	С	LEU A 4		33.351	49.162	76.632		28.39
_	ATOM	3962	0	LEU A 4		32.893	49.361	77.780		29.41
5	ATOM	3963	CB	LEU A 4		34.991	50.709	75.436		31.70
	ATOM	3964	CG	LEU A 4		36.242	51.512	75.788	1.00	39.76
	ATOM	3965		LEU A 4		37.335	50.572	76.278	1.00	42.91
	ATOM	3966	CD2	LEU A 4	99	36.718	52.268	74.555	1.00	39.08
	MOTA	3967	N	ASN A 5	00	32.606	48.737	75.642	1.00	15.23
10	MOTA	3968	CA	ASN A 5	00	31.213	48.508	75.828	1.00	13.44
	MOTA	3969	С	ASN A 5	00	30.919	47.455	76.864	1.00	18.98
	ATOM	3970	0	ASN A 5	00	29.997	47.602	77.705		19.01
	ATOM	3971	CB	ASN A 5	00	30.604	48.129	74.476		12.21
	ATOM	3972	CG	ASN A 5		29.093	48.214	74.426		37.49
15	ATOM	3973		ASN A 5		28.433	49.151	74.930		36.17
	ATOM	3974		ASN A 5		28.542	47.218	73.787		18.34
	ATOM	3975	N	GLU A 5		31.699	46.366	76.743		14.20
	MOTA	3976	CA	GLU A 5		31.626	45.224	77.625		13.27
	MOTA	3977	C	GLU A 5		31.948	45.676	79.063		21.59
20	ATOM	3978	ō	GLU A 5		31.175		80.009		
20	ATOM	3979	СВ	GLU A 5			45.463			25.02
		3980		GLU A 5		32.446	44.057	77.053		14.95
	ATOM ATOM	3981	CG	_	_	32.371	42.827	77.989		30.40
			CD	GLU A 5		30.946	42.399	78.199		39.28
25	ATOM	3982 3983	OE1	GLU A 5		30.050	42.672	77.413		76.70
23	ATOM			GLU A 5		30.780	41.694	79.292		46.10
	ATOM	3984	N	PHE A 5		33.059	46.400	79.226		18.07
	ATOM	3985	CA	PHE A 5		33.395	46.952	80.530		21.54
	ATOM	3986	C	PHE A 5		32.179	47.679	81.125		23.38
30	ATOM	3987	0	PHE A 5		31.786	47.491	82.301		21.47
30	ATOM	3988	CB	PHE A 5		34.507	48.012	80.327		26.05
	ATOM	3989	CG	PHE A 5		34.590	49.082	81.393		30.41
	ATOM	3990		PHE A 5		35.085	48.781	82.662		29.68
	MOTA	3991		PHE A 5		34.211	50.402	81.132		39.16
25	MOTA	3992		PHE A 5		35.183	49.773	83.638		31.12
35	ATOM	3993		PHE A 5		34.305	51.414	82.096		40.46
	ATOM	3994	CZ	PHE A 5		34.812	51.090	83.352		35.41
	MOTA	3995	N	LEU A 5		31.613	48.557	80.288		18.39
	ATOM	3996	CA	LEU A 5		30.487	49.343	80.692		22.78
40	ATOM	3997	С	LEU A 5		29.337	48.491	81.178		31.04
40	MOTA	3998	0	LEU A 5		28.768	48.784	82.243	1.00	29.23
	ATOM	3999	CB	LEU A 5		30.002	50.325	79.619		24.68
	MOTA	4000	CG	LEU A 5		30.888	51.571	79.465	1.00	27.47
	ATOM	4001		LEU A 5		30.415	52.376	78.259	1.00	24.86
4.5	ATOM	4002	CD2	LEU A 5		30.860	52.420	80.733	1.00	20.54
45	ATOM	4003	N	ALA A 5	04	29.012	47.444	80.378	1.00	27.79
	ATOM	4004	CA	ALA A 5		27.911	46.474	80.643	1.00	24.63
	ATOM	4005	C	ALA A 5	04	28.140	45.752	81.939	1.00	27.71
	ATOM	4006	0	ALA A 5	04	27.265	45.577	82.817	1.00	28.62
	ATOM	4007	CB	ALA A 5	04	27.762	45.482	79.496	1.00	23.87
50	ATOM	4008	N	GLN A 5	05	29.382	45.344	82.066	1.00	22.16
	ATOM	4009	CA	GLN A 5	05	29.738	44.710	83.299	1.00	21.02
	MOTA	4010	C	GLN A 5	05	29.489	45.737	84.423	1.00	31.26
	MOTA	4011	0	GLN A 5	05	28.787	45.507	85.413	1.00	32.31
	MOTA	4012	CB	GLN A 5	05	31.202	44.209	83.270	1.00	18.95
55	MOTA	4013	CG	GLN A 5	05	31.367	42.881	82.495	1.00	13.72
	MOTA	4014	CD	GLN A 5	05	32.806	42.549	82.136	1.00	31.75
	ATOM	4015	OE1	GLN A 5	05	33.796	42.969	82.768		43.14
	ATOM	4016		GLN A 5		32.923	41.781	81.085		39.34
	ATOM	4017	N	THR A 5		30.056	46.918	84.263		25.95
60	ATOM	4018	CA	THR A 5		29.855	47.864	85.302		23.64
	ATOM	4019	С	THR A 5		28.411	48.101	85.579		23.89
	ATOM	4020	0	THR A 5		27.923	47.999	86.696		22.75
	ATOM	4021	CB	THR A 5		30.600	49.130	85.008		23.72
	ATOM	4022	OG1			31.938	48.749	84.742		27.18

		ATOM	4023	CG2	THR	Δ	506	30.502	49.961	86.260	1.00 11.12
		ATOM	4024	N	LEU			27.727	48.408	84.518	1.00 17.92
		MOTA	4025	CA	LEU			26.334	48.683	84.604	1.00 17.22
	_	ATOM	4026	С	LEU	Α	507	25.618	47.683	85.442	1.00 25.65
	5	ATOM	4027	0	LEU	A	507	24.816	48.073	86.266	1.00 27.85
		MOTA	4028	CB	LEU	A	507	25.693	48.686	83.224	1.00 17.85
		MOTA	4029	CG	LEU			24.207	48.930	83.336	1.00 21.02
		ATOM	4030		LEU			23.974	50.290	83.970	1.00 22.48
	10	MOTA	4031		LEU			23.599	48.919	81.949	1.00 15.25
	10	MOTA	4032	N	GLN			25.878	46.395	85.194	1.00 21.35
		ATOM	4033	CA	GLN			25.215	45.333	85.979	1.00 18.08
		MOTA	4034	С	GLN			25.386	45.561	87.508	1.00 34.24
		MOTA MOTA	4035	0	GLN			24.653	45.017	88.343	1.00 34.04
	15	ATOM	4036 4037	CB CG	GLN			25.713	43.917	85.608 84.191	1.00 10.94
	15	ATOM	4037	CD	GLN GLN			25.366 25.635	43.446 41.944	84.191	1.00 26.42 1.00 52.93
		ATOM	4039		GLN			26.550	41.394	84.628	1.00 32.93
		ATOM	4040		GLN			24.864	41.252	83.147	1.00 32.33
		ATOM	4041	N	ARG			26.380	46.361	87.901	1.00 33.73
	20	ATOM	4042	CA	ARG			26.600	46.614	89.328	1.00 32.53
		ATOM	4043	C	ARG			26.153	48.016	89.727	1.00 33.63
		ATOM	4044	Ö	ARG			26.509	48.522	90.777	1.00 31.08
		ATOM	4045	CB	ARG			28.055	46.440	89.760	1.00 29.22
		ATOM	4046	CG	ARG			28.553	45.014	89.733	1.00 29.78
	25	ATOM	4047	CD	ARG	Α	509	27.744	44.054	90.609	1.00 30.86
		ATOM	4048	ΝE	ARG	Α	509	28.533	43.602	91.756	1.00 82.23
		MOTA	4049	CZ	ARG			29.842	43.274	91.726	1.00100.00
		MOTA	4050		ARG			30.579	43.315	90.613	1.00 92.85
	20	MOTA	4051		ARG			30.430	42.881	92.855	1.00 91.85
	30	ATOM	4052	N	ALA			25.384	48.659	88.880	1.00 32.59
		ATOM	4053	CA	ALA			24.952	49.985	89.215	1.00 32.51
		ATOM	4054	C	ALA			24.151	49.845	90.479	1.00 34.97
		ATOM ATOM	4055 4056	O CB	ALA			23.601	48.785	90.693	1.00 37.57 1.00 32.91
	35	ATOM	4057	N	ALA PRO			24.189 24.174	50.622 50.856	88.063 91.334	1.00 32.91
	-	ATOM	4058	CA	PRO			24.174	52.102	91.052	1.00 23.14
		ATOM	4059	C	PRO			26.217	52.178	91.694	1.00 29.23
		ATOM	4060	ō			511	26.445	51.601	92.723	1.00 28.16
		ATOM	4061	CB			511	24.102	53.169	91.818	1.00 21.55
	40	ATOM	4062	CG			511	23.316	52.432	92.886	1.00 28.68
		MOTA	4063	CD	PRO	Α	511	23.169	50.995	92.407	1.00 25.16
		MOTA	4064	N	LEU	Α	512	27.094	52.968	91.109	1.00 32.95
		ATOM	4065	CA			512	28.394	53.188	91.686	1.00 33.42
	4.5	MOTA	4066	С			512	28.287	54.512	92.397	1.00 38.65
	45	ATOM	4067	0			512	27.388	55.305	92.114	1.00 40.69
		ATOM	4068	CB			512	29.453	53.350	90.587	1.00 34.40
		MOTA	4069	CG CD1			512	30.178	52.049	90.216	1.00 40.13
		ATOM ATOM	4070 4071		LEU LEU			29.222 31.322	51.086 52.385	89.508 89.273	1.00 39.04 1.00 44.61
	50	ATOM	4072	N			513	29.196	54.781	93.312	1.00 31.05
:	50	ATOM	4073	CA			513	29.167	56.058	94.008	1.00 31.03
:		ATOM	4074	C			513	29.296	57.203	93.019	1.00 23.76
		ATOM	4075	ō			513	30.121	57.182	92.118	1.00 27.17
-		ATOM	4076	CB			513	30.387	56.013	94.948	1.00 25.59
	55	ATOM	4077	CG			513	30.702	54.542	95.149	1.00 27.14
		MOTA	4078	CD			513	30.030	53.779	94.032	1.00 25.00
•		MOTA	4079	N			514	28.478	58.203	93.185	1.00 22.92
		MOTA	4080	CA			514	28.516	59.350	92.279	1.00 27.55
• . •	<b>60</b>	MOTA	4081	С			514	29.930	59.766	91.940	1.00 31.95
: .	60	ATOM	4082	0			514	30.287	59.908	90.765	1.00 37.11
		MOTA	4083	CB			514	27.673	60.564	92.741	1.00 30.03
		ATOM	4084	CG			514	27.428	61.626	91.648	1.00 32.87
		ATOM	4085		LEU			26.648	61.082	90.440	1.00 28.48
• • •		ATOM	4086	CD2	LEU	A	514	26.699	62.780	92.272	1.00 31.16

63.035

85.641

1.00 37.79

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ATOM

	ATOM	4151	CG	GLU A 522	38.233	63.196	86.273	1.00 58.85
	ATOM	4152	CD	GLU A 522		64.040	87.493	1.00 73.64
	ATOM	4153		GLU A 522		64.641	87.709	1.00 45.66
5	ATOM	4154	OE2			64.037	88.289	1.00 47.91
)	ATOM	4155	N	VAL A 523		60.739	83.552	1.00 40.13
	ATOM	4156	CA	VAL A 523		60.136	83.058	1.00 37.49
	ATOM	4157	C	VAL A 523		59.351	81.778	1.00 38.88
	ATOM	4158	0	VAL A 523		59.016	81.138	1.00 40.21
10	ATOM ATOM	4159 4160	CB	VAL A 523		59.370	84.102	1.00 40.01
10	ATOM	4161	CG1			60.165	85.413	1.00 39.12
	ATOM	4162		VAL A 523 TYR A 524		58.017	84.320	1.00 39.82
	ATOM	4163	N CA	TYR A 524		59.048 58.330	81.379	1.00 30.35
	ATOM	4164	C	TYR A 524		59.144	80.114	1.00 28.11
15	ATOM	4165	ŏ	TYR A 524		58.802	79.074 77.908	1.00 33.14 1.00 35.84
	ATOM	4166	СВ	TYR A 524		56.878	80.119	1.00 35.54
	ATOM	4167	CG	TYR A 524		55.960	81.111	1.00 20.87
	ATOM	4168	CD1	TYR A 524		55.938	81.258	1.00 20.07
	ATOM	4169	CD2	TYR A 524		55.083	81.879	1.00 21.39
20	ATOM	4170	CE1	TYR A 524		55.063	82.176	1.00 25.64
	ATOM	4171	CE2	TYR A 524		54.227	82.827	1.00 18.61
	MOTA	4172	CZ	TYR A 524		54.231	82.969	1.00 19.81
	ATOM	4173	ОН	TYR A 524		53.402	83.863	1.00 23.92
	ATOM	4174	N	ASN A 525		60.221	79.496	1.00 25.98
25	ATOM	4175	CA	ASN A 525	35.687	61.088	78.588	1.00 25.01
	ATOM	4176	C	ASN A 525	34.661	60.354	77.735	1.00 29.86
	ATOM	4177	0	ASN A 525		60.535	76.499	1.00 29.39
	ATOM	4178	CB	ASN A 525		61.922	77.739	1.00 29.55
20	ATOM	4179	CG	ASN A 525		62.980	76.894	1.00 30.32
30	ATOM	4180		ASN A 525		63.332	75.850	1.00 32.77
	ATOM	4181		ASN A 525		63.527	77.344	1.00 13.80
	ATOM	4182	N	PHE A 526		59.512	78.436	1.00 24.21
	ATOM ATOM	4183	CA	PHE A 526		58.745	77.807	1.00 25.14
35	ATOM	4184 4185	С	PHE A 526		59.631	77.214	1.00 31.74
J J	ATOM	4186	O CB	PHE A 526		59.241	76.272	1.00 34.99
	ATOM	4187	CG	PHE A 526		57.732 56.499	78.781	1.00 26.60
	ATOM	4188	CD1	PHE A 526		56.080	78.978 78.000	1.00 23.82 1.00 25.00
	ATOM	4189	CD2	PHE A 526		55.767	80.159	1.00 23.00
40	ATOM	4190	CE1	PHE A 526		54.927	78.173	1.00 27.63
	ATOM	4191	CE2	PHE A 526		54.634	80.370	1.00 25.42
	ATOM	4192	CZ	PHE A 526		54.202	79.364	1.00 25.28
	ATOM	4193	N	ASN A 527		60.815	77.760	1.00 28.22
	MOTA	4194	CA	ASN A 527		61.688	77.214	1.00 31.18
45	ATOM	4195	С	ASN A 527		62.046	75.744	1.00 33.17
	ATOM	4196	0	ASN A 527	29.965	62.394	74.999	1.00 30.80
	ATOM	4197	CB	ASN A 527		62.967	78.052	1.00 36.41
	ATOM	4198	CG	ASN A 527		62.752	79.292	1.00 46.99
50	ATOM	4199		ASN A 527		63.571	80.209	1.00 36.82
50	ATOM	4200		ASN A 527		61.636	79.338	1.00 43.55
	ATOM	4201	N	ALA A 528		61.947	75.348	1.00 27.46
	ATOM	4202	CA	ALA A 528		62.278	74.005	1.00 26.48
	MOTA	4203	C	ALA A 528		61.188	72.950	1.00 32.09
55	ATOM	4204	0	ALA A 528		61.404	71.753	1.00 32.09
<i>JJ</i>	ATOM	4205	CB	ALA A 528		62.584	74.105	1.00 26.04
	ATOM	4206	N	ILE A 529		59.983	73.402	1.00 31.35
	ATOM ATOM	4207	CA	ILE A 529		58.859	72.529	1.00 28.47
	ATOM	4208 4209	C	ILE A 529		58.904	71.887	1.00 35.96
60	ATOM	4209	O CB	ILE A 529		59.023	72.578	1.00 38.79
	ATOM	4211		ILE A 529 ILE A 529		57.544 57.201	73.264	1.00 30.17
	ATOM	4212		ILE A 529		57.291	73.392	1.00 31.37
	ATOM	4213		ILE A 529		56.411 56.515	72.489 74.635	1.00 27.63
	ATOM	4214	N	ASN A 530		58.806	74.633	1.00 33.41
	011	46 T J	44	720 W 220	30.402	20.000	10.339	1.00 34.86

	ATOM	4215	CA	ASN A	530	29.196	58.841	69.852	1.00 36.44
	ATOM	4216	С	ASN A	530	28.596	57.495	69.473	1.00 39.90
	ATOM	4217	0	ASN A		27.452	57,437	69.043	1.00 41.37
	ATOM	4218	CB	ASN A	530	28.951	60.044	68.928	1.00 51.44
5	ATOM	4219	CG	ASN A		28.461	61.253	69.732	1.00100.00
	ATOM	4220		ASN A		27.652	61.109	70.665	1.00100.00
	ATOM	4221		ASN A		28.955	62.442	69.392	1.00 91.39
	ATOM	4222	N	ASN A		29.368	56.403	69.688	1.00 30.37
	ATOM	4223	CA	ASN A		28.912	55.030	69.446	1.00 28.14
10	ATOM	4224	c	ASN A		27.696	54.753	70.360	1.00 32.80
	ATOM	4225	ō	ASN A		27.746	54.887	71.611	1.00 36.74
	ATOM	4226	СВ	ASN A		30.092	54.066	69.690	1.00 24.31
	ATOM	4227	CG	ASN A		29.770	52.601	69.730	1.00 24.31
	ATOM	4228		ASN A		28.795	52.182	70.359	1.00 36.49
15		4229		ASN A				69.099	1.00 30.57
15	ATOM					30.643	51.810		
	ATOM	4230	И	SER A		26.570	54.403	69.734	1.00 22.02
	ATOM	4231	CA	SER A		25.325	54.183	70.459	1.00 19.67
	MOTA	4232	С	SER A		25.323	53.208	71.627	1.00 26.15
20	MOTA	4233	0	SER A		24.767	53.475	72.680	1.00 26.64
20	MOTA	4234	CB	SER A		24.090	54.034	69.582	1.00 26.92
	MOTA	4235	OG	SER A		24.294	53.211	68.452	1.00 23.59
	ATOM	4236	N	GLU A		25.929	52.062	71.423	1.00 22.68
	ATOM	4237	CA	GLU A		25.995	51.036	72.420	1.00 22.97
~ -	ATOM	4238	С	GLU A	533	26.677	51.569	73.635	1.00 30.48
25	MOTA	4239	0	GLU A		26.125	51.539	74.749	1.00 31.13
	MOTA	4240	CB	GLU A	533	26.683	49.779	71.850	1.00 23.96
	MOTA	4241	CG	GLU A	533	25.827	49.146	70.733	1.00 20.82
	ATOM	4242	CD	GLU A	533	24.611	48.450	71.276	1.00 40.65
	ATOM	4243	OE1	GLU A	533	24.432	48.256	72.476	1.00 36.25
30	ATOM	4244	OE2	GLU A	533	23.782	48.038	70.339	1.00 25.87
	ATOM	4245	N	ILE A	534	27.872	52.101	73.392	1.00 26.20
	ATOM	4246	CA	ILE A	534	28.622	52.672	74.484	1.00 26.32
	MOTA	4247	С	ILE A	534	27.900	53.849	75,121	1.00 27.83
	ATOM	4248	0	ILE A	534	27.697	53.911	76.326	1.00 26.54
35	MOTA	4249	CB	ILE A	534	30.051	53.022	74.102	1.00 29.16
	ATOM	4250	CG1	ILE A	534	30.738	51.808	73.479	1.00 29.47
	ATOM	4251	CG2	ILE A	534	30.801	53.458	75.353	1.00 28.28
	MOTA	4252		ILE A		32.038	52.184	72.765	1.00 34.99
	MOTA	4253	N	ARG A	535	27.480	54.805	74.320	1.00 24.30
40	MOTA	4254	CA	ARG A	535	26.804	55.898	74.949	1.00 22.51
	MOTA	4255	С	ARG A	535	25.573	55.401	75.701	1.00 28.19
	ATOM	4256	0	ARG A	535	25.212	55.808	76.791	1.00 32.61
	ATOM	4257	CB	ARG A	535	26.457	56.942	73.913	1.00 24.83
	ATOM	425B	CG	ARG A		25.970	58.229	74.541	1.00 21.49
45	ATOM	4259	CD	ARG A		25.327	59.183	73.554	1.00 13.79
	MOTA	4260		ARG A		25.194	60.457	74.213	1.00 31.38
	MOTA	4261	CZ	ARG A		26.256	61.140	74.554	1.00 29.41
	MOTA	4262		ARG A		27.463	60.677	74.259	1.00 26.45
	ATOM	4263		ARG A		26.110	62.302	75.195	1.00 19.99
50	ATOM	4264	N	PHE A		24.911	54.466	75.126	1.00 23.44
50	ATOM	4265	CA	PHE A		23.740	53.980	75.770	1.00 23.44
								77.199	
	MOTA	4266	C 0	PHE A		23.976	53.555		1.00 22.74
	ATOM	4267		PHE A		23.349	54.113	78.105 74.919	1.00 22.06
55	ATOM	4268	CB	PHE A		23.117	52.865		1.00 23.17
23	ATOM	4269	CG	PHE A		22.040	52.153	75.658	1.00 21.92
	ATOM	4270		PHE A		20.933	52.845	76.150	1.00 22.66
	ATOM	4271		PHE A		22.145	50.783	75.882	1.00 23.25
	ATOM	4272		PHE A		19.926	52.181	76.847	1.00 21.23
<b>.</b>	MOTA	4273		PHE A		21.147	50.101	76.576	1.00 24.70
60	MOTA	4274	CZ	PHE A		20.047	50.811	77.065	1.00 20.57
	ATOM	4275	N	ARG A		24.863	52.560	77.364	1.00 18.22
	MOTA	4276	CA	ARG A		25.239	51.995	78.665	1.00 19.20
	ATOM	4277	С	ARG A	537	25.932	52.963	79.618	1.00 27.62
	ATOM	4278	0	ARG A	537	25.803	52.845	80.837	1.00 26.73

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	MOTA	4279	CB	ARG	A 537	26.035	50.709	78.556	1.00 18.91
	MOTA	4280	CG		A 537		49.656	77.708	1.00 16.55
	ATOM	4281	CD		A 537		48.426	77.387	1.00 21.58
_	MOTA	4282	NE	ARG	A 537	25.341	47.357	76.886	1.00 28.42
5	MOTA	4283	CZ	ARG	A 537	25.060	47.206	75.609	1.00 18.29
	ATOM	4284	NH1	ARG	A 537	25.569	48.004	74.703	1.00 22.46
	ATOM	4285			A 537		46.236	75.224	1.00 25.22
	ATOM	4286	N		A 538		53.930	79.064	1.00 24.21
• •	MOTA	4287	CA	TRP	A 538	27.337	54.918	79.867	1.00 22.11
10	MOTA	4288	С	TRP	A 538	26.274	55.719	80.550	1.00 28.09
	ATOM	4289	0	TRP	A 538		55.951	81.741	1.00 27.39
	ATOM	4290	CB		A 538		55.888	78.949	
									1.00 20.48
	ATOM	4291	CG		A 538		57.157	79.580	1.00 21.29
	ATOM	4292			A 538		58.345	78.968	1.00 22.86
15	ATOM	4293	CD2	TRP	A 538	29.286	57.352	80.845	1.00 21.79
	MOTA	4294			A 538		59.270	79.769	1.00 22.70
	ATOM	4295			A 538		58.696	80.911	1.00 24.79
	MOTA	4296			A 538		56.535	81.946	1.00 23.35
20	MOTA	4297			A 538		59.248	82.025	1.00 25.89
20	ATOM	4298	CZ3	TRP	A 538	30.203	57.056	83.046	1.00 23.35
	ATOM	4299	CH2	TRP	A 538	30.562	58.405	83.081	1.00 24.89
	ATOM	4300	N		A 539		56.161	79.758	1.00 27.31
	ATOM	4301	CA		A 539				
							56.974	80.306	1.00 27.18
25	ATOM	4302	С		A 539		56.245	81.332	1.00 28.25
25	ATOM	4303	0	LEU	A 539		56.822	82.266	1.00 27.19
	MOTA	4304	CB	LEU	A 539	23.428	57.812	79.262	1.00 26.37
	ATOM	4305	CG	LEU	A 539	24.269	58.682	78.279	1.00 25.71
	ATOM	4306	CD1		A 539		59.424	77.290	1.00 21.79
	ATOM	4307			A 539		59.680	79.011	1.00 23.51
30	ATOM	4308	N N						
50					A 540		54.960	81.188	1.00 27.56
	ATOM	4309	CA		A 540		54.283	82.170	1.00 26.88
	MOTA	4310	С	ARG	A 540	23.145	54.229	83.453	1.00 31.82
	ATOM	4311	0	ARG	A 540	22.618	54.448	84.539	1.00 32.72
	ATOM	4312	CB		A 540		52.888	81.732	1.00 24.48
35	MOTA	4313	CG		A 540		52.885	80.331	1.00 32.96
	ATOM	4314							
			CD		A 540		51.597	80.090	1.00 33.19
	ATOM	4315	NE		A 540		51.414	81.085	1.00 33.95
	ATOM	4316	CZ	ARG	A 540	19.151	50.242	81.409	1.00 30.83
	MOTA	4317	NH1	ARG	A 540	19.564	49.132	80.849	1.00 25.37
40	ATOM	4318	NH2	ARG	A 540	18.186	50.186	82.317	1.00 30.30
	ATOM	4319	N		A 541		53.948	83.318	1.00 28.93
	ATOM	4320	CA		A 541		53.895	84.505	1.00 26.36
	ATOM	4321	С		A 541		55.210	85.277	1.00 31.00
45	MOTA	4322	0	LEU	A 541		55.246	86.439	1.00 31.62
45	ATOM	4323	CB	LEU	A 541	26.702	53.586	84.094	1.00 23.61
	MOTA	4324	CG	LEU	A 541	27,730	53.533	85.212	1.00 24.67
	MOTA	4325			A 541		52.411	86.190	1.00 25.02
	ATOM	4326			A 541			84.621	1.00 19.31
							53.245		
50	ATOM	4327	N		A 542		56.307	84.570	1.00 30.52
50	MOTA	4328	CA		A 542		57.661	85.105	1.00 31.76
	MOTA	4329	C	CYS	A 542	23.808	57.996	85.805	1.00 32.71
	MOTA	4330	0	CYS	A 542	23.801	58.536	86.914	1.00 33.97
	ATOM	4331	СВ		A 542		58.744	84.073	1.00 31.30
	ATOM	4332	SG		A 542				
55							58.488	83.347	1.00 34.39
23	MOTA	4333	N		A 543		57.708	85.125	1.00 25.61
	MOTA	4334	CA		A 543		57.982	85.643	1.00 23.12
	ATOM	4335	С	ILE	A 543	21.199	57.161	86.885	1.00 30.15
	MOTA	4336	0		A 543		57.645	87.972	1.00 30.73
	ATOM	4337	СВ		A 543		57.627	84.585	1.00 23.75
60	ATOM	4338							
					A 543		58.664	83.468	1.00 24.09
	ATOM	4339			A 543		57.572	85.182	1.00 22.99
	ATOM	4340	CD1		A 543		60.109	83.982	1.00 27.34
	MOTA	4341	N	GLN	A 544	21.440	55.884	86.695	1.00 27.99
	ATOM	4342	CA		A 544		54.929	87.756	1.00 25.72

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	ATOM	4343	С	GLN A	544	22.243	55.269	88.901	1.00 26.34
	ATOM	4344	ō	GLN A		22.029	54.826	90.014	1.00 26.24
	ATOM	4345	СВ	GLN A		21.562	53.512	87.210	1.00 26.76
	ATOM	4346	CG	GLN A		20.355	52.955	86.432	1.00 17.74
5		4347		GLN A		20.598	51.604	85.743	1.00 32.62
5	ATOM		CD						
	MOTA	4348	OE1	GLN A		20.326	51.432	84.551	1.00 38.66
	ATOM	4349		GLN A		21.063	50.627	86.494	1.00 14.93
	MOTA	4350	N	SER A		23.286	56.033	88.625	1.00 21.73
	MOTA	4351	CA	SER A	545	24.187	56.392	89.685	1.00 22.42
10	MOTA	4352	С	SER A	545	23.819	57.726	90.287	1.00 33.67
	ATOM	4353	0	SER A	545	24.567	58.257	91.133	1.00 37.22
	ATOM	4354	СВ	SER A	545	25.646	56.322	89.338	1.00 21.57
	ATOM	4355	OG	SER A		25.980	54.968	89.163	1.00 31.72
	ATOM	4356	И	LYS A		22.662	58.251	89.841	1.00 23.09
15								90.356	
13	ATOM	4357	CA	LYS A		22.135	59.490		1.00 20.79
	ATOM	4358	С	LYS A		22.887	60.738	89.961	1.00 27.55
	ATOM	4359	0	LYS A		23.001	61.655	90.771	1.00 27.95
	ATOM	4360	CB	LYS A		22.126	59.449	91.881	1.00 21.71
	ATOM	4361	CG	LYS A	546	21.498	58.195	92.484	1.00 15.90
20	MOTA	4362	CD	LYS A	546	20.245	57.814	91.731	1.00 39.84
	ATOM	4363	CE	LYS A	546	19.355	56.850	92.498	1.00 45.16
	ATOM	4364	NZ	LYS A		18.197	56.399	91.704	1.00 40.14
				TRP A		23.414	60.776	88.753	1.00 23.26
	ATOM	4365	N						
25	ATOM	4366	CA	TRP A		24.141	61.931	88.289	1.00 21.90
25	ATOM	4367	С	TRP A		23.221	62.901	87.570	1.00 29.82
	ATOM	4368	0	TRP A	547	22.808	62.679	86.432	1.00 34.91
	ATOM	4369	CB	TRP A	547	25.262	61.500	87.361	1.00 21.04
	MOTA	4370	CG	TRP A	547	26.254	62.591	87.206	1.00 22.57
	ATOM	4371	CD1	TRP A	547	26.224	63.769	87.844	1.00 25.87
30	ATOM	4372	CD2	TRP A	547	27.437	62.588	86.417	1.00 23.40
	ATOM	4373		TRP A		27.316	64.511	87.517	1.00 25.64
	MOTA	4374	CE2	TRP A		28.081	63.819	86.635	1.00 27.46
	ATOM	4375		TRP A		28.014	61.668	85.547	1.00 26.21
		4376							
35	ATOM		CZ2			29.279	64.162	85.995	1.00 27.44
33	MOTA	4377	CZ3	TRP A		29.195	62.009	84.923	1.00 28.70
	ATOM	4378	CH2	TRP A		29.822	63.236	85.138	1.00 28.41
	ATOM	4379	N	GLU A		22.888	63.995	88.227	1.00 22.95
	ATOM	4380	CA	GLU A	548	21.979	64.970	87.649	1.00 20.70
	ATOM	4381	С	GLU A	548	22.419	65.473	86.305	1.00 28.32
40	ATOM	4382	0	GLU A	548	21.598	65.735	85.391	1.00 29.41
	ATOM	4383	CB	GLU A	548	21.635	66.144	88.607	1.00 22.45
	ATOM	4384	CG	GLU A		20.884	65.709	89.919	1.00 30.56
	ATOM	4385	CD	GLU A		20.337	66.848	90.765	1.00 59.35
	ATOM	4386	OE1	GLU A		20.336	68.021	90.413	1.00 81.52
45	MOTA	4387	OE2			19.888	66.450	91.925	1.00 57.05
72									
	ATOM	4388	N	ASP A		23.728	65.661	86.201	1.00 24.72
	MOTA	4389	CA	ASP A		24.276	66.190	84.981	1.00 21.48
	MOTA	4390	С	ASP A		23.914	65.359	83.795	1.00 30.08
<b>5</b> 0	MOTA	4391	0	ASP A		23.760	65.869	82.697	1.00 32.05
<b>5</b> 0	ATOM	4392	CB	ASP A	549	25.775	66.480	85.048	1.00 21.28
	ATOM	4393	CG	ASP A	549	26.076	67.463	86.130	1.00 37.74
	ATOM	4394	OD1	ASP A		25.432	68.479	86.297	1.00 48.21
	ATOM	4395		ASP A		27.076	67.115	86.882	1.00 46.51
	ATOM	4396	N	ALA A		23.766	64.073	84.032	1.00 27.68
55	ATOM	4397	CA			23.445		82.965	1.00 27.00
23				ALA A			63.133		
	ATOM	4398	С	ALA A		22.019	63.171	82.431	1.00 32.35
	ATOM	4399	0_	ALA A		21.745	62.615	81.361	1.00 31.95
	MOTA	4400	CB	ALA A		23.812	61.713	83.372	1.00 25.48
	MOTA	4401	N	ILE A		21.123	63.795	83.192	1.00 28.71
60	ATOM	4402	CA	ILE A	551	19.716	63.882	82.832	1.00 28.20
	ATOM	4403	С	ILE A		19.461	64.355	81.411	1.00 32.04
	ATOM	4404	0	ILE A		18.833	63.679	80.619	1.00 31.75
	ATOM	4405	СВ	ILE A		18.876	64.641	83.868	1.00 30.29
	ATOM	4406		ILE A		19.038	63.985	85.226	1.00 30.25
	AT OF	7700	CGI	IDE W	J J I	13.030	00.900	00.220	1.00 31.30

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	ATOM	4407		ILE A 5		17.391	64.661	83.475	1.00 24.75
	MOTA	4408	CD1	ILE A 5		18.072	64.561	86.253	1.00 31.62
	MOTA	4409	N	PRO A 5	52	19.969	65.529	81.099	1.00 33.75
_	ATOM	4410	CA	PRO A 5	52	19.793	66.121	79.796	1.00 32.60
5	ATOM	4411	С	PRO A 5	552	20.240	65.224	78.669	1.00 30.34
	ATOM	4412	0	PRO A 5	52	19.583	65.119	77.622	1.00 27.23
	ATOM	4413	CB	PRO A 5	552	20.659	67.383	79.787	1.00 34.45
	ATOM	4414	CG	PRO A 5	52	21.348	67.500	81.139	1.00 38.39
	ATOM	4415	CD	PRO A 5		20.934	66,296	81.950	1.00 34.48
10	ATOM	4416	N	LEU A 5		21.391	64.616	78.891	1.00 23.74
10	ATOM	4417	CA	LEU A 5		21.997	63.727	77.931	1.00 23.74
	ATOM	4418	C			21.138	62.522	77.670	1.00 22.72
				LEU A 5					
	ATOM	4419	0	LEU A 5		21.015	62.087	76.523	1.00 35.70
1.5	ATOM	4420	СВ	LEU A 5		23.362	63.281	78.439	1.00 21.57
15	ATOM	4421	CG	LEU A 5		24.196	64.496	78.818	1.00 24.02
	ATOM	4422		LEU A 5		25.608	64.071	79.174	1.00 19.59
	ATOM	4423	CD2	LEU A 5	553	24.188	65.479	77.630	1.00 18.60
	ATOM	4424	N	ALA A 5	554	20.563	61.973	78.754	1.00 30.05
	ATOM	4425	CA	ALA A 5	554	19.726	60.779	78.669	1.00 27.72
20	ATOM	4426	С	ALA A 5	554	18.432	61.107	77.988	1.00 36.03
	ATOM	4427	0	ALA A 5	554	17.944	60.332	77.163	1.00 37.08
	ATOM	4428	CB	ALA A 5		19.475	60.165	80.017	1.00 26.78
	ATOM	4429	N	LEU A 5		17.898	62.283	78.320	1.00 29.70
	ATOM	4430	CA	LEU A 5		16.644	62.724	77.720	1.00 28.32
25	ATOM	4431	C	LEU A 5		16.803	62.902	76.229	1.00 29.19
	ATOM	4432	Ö	LEU A 5		15.970	62.506	75.385	1.00 26.13
		4433				16.110			
	ATOM		CB	LEU A 5			64.027	78.342	1.00 28.26
	ATOM	4434	CG	LEU A 5		15.371	63.814	79.666	1.00 32.76
30	ATOM	4435		LEU A 5		15.360	65.118	80.464	1.00 34.66
30	ATOM	4436		LEU A 5		13.938	63.334	79.427	1.00 27.50
	ATOM	4437	N	LYS A 5		17.922	63.524	75.950	1.00 28.45
	ATOM	4438	CA	LYS A 5		18.325	63.839	74.615	1.00 28.76
	<b>M</b> OTA	4439	С	LYS A 5		18.369	62.591	73.800	1.00 35.11
	MOTA	4440	0	LYS A 5	556	17.670	62.491	72.796	1.00 41.80
35	MOTA	4441	CB	LYS A 5	556	19.645	64.592	74.599	1.00 31.79
	ATOM	4442	CG	LYS A 5	556	20.101	65.139	73.250	1.00 63.55
	ATOM	4443	CD	LYS A 5	556	21.585	65.518	73.254	1.00 81.77
	MOTA	4444	CE	LYS A 5	556	22.046	66.270	72.011	1.00 79.68
	MOTA	4445	NZ	LYS A 5	556	23.239	65.661	71.401	1.00 73.00
40	MOTA	4446	N	MET A 5		19.154	61.623	74.248	1.00 26.96
	ATOM	4447	CA	MET A 5		19.305	60.364	73.514	1.00 23.97
	ATOM	4448	C	MET A 5		18.033	59.553	73.287	1.00 30.96
	ATOM	4449	ŏ	MET A S		17.811	58.907	72.263	1.00 23.24
	ATOM	4450	СВ	MET A S		20.401	59.488	74.104	1.00 24.89
45	ATOM	4451	CG	MET A 5		20.533	58.163	73.368	1.00 29.37
15	ATOM	4452	SD					73.864	1.00 23.37
	ATOM	4453	CE	MET A 5		22.029	57.276 55.812	72.793	1.00 33.21
		4454				21.939			1.00 33.10
	MOTA		N	ALA A S		17.203	59.568	74.287	
50	MOTA	4455	CA	ALA A 5		16.000	58.816	74.194	1.00 33.03
50	ATOM	4456	C	ALA A 5		15.042	59.345	73.163	1.00 38.12
	MOTA	4457	0	ALA A S		14.349	58.568	72.543	1.00 37.09
	MOTA	4458	CB	ALA A 5		15.317	58.780	75.553	1.00 32.89
	ATOM	4459	N	THR A 5		14.994	60.665	73.032	1.00 36.76
	ATOM	4460	CA	THR A 5		14.067	61.326	72.144	1.00 36.43
55	MOTA	4461	С	THR A 5	559	14.588	61.590	70.794	1.00 41.71
	MOTA	4462	0	THR A 5	559	13.788	61.768	69.891	1.00 44.66
	MOTA	4463	CB	THR A 5	559	13.615	62.705	72.694	1.00 43.70
	ATOM	4464		THR A 5		14.728	63.545	72.957	1.00 38.88
	MOTA	4465	CG2			12.764	62.549	73.942	1.00 44.95
60	ATOM	4466	N	GLU A S		15.897	61.695	70.674	1.00 37.38
- *	ATOM	4467	CA	GLU A 5		16.495	62.018	69.395	1.00 36.51
	ATOM	4468	C	GLU A 5		16.652	60.846	68.448	1.00 40.11
	ATOM	4469	0	GLU A 5		17.003	61.052	67.300	1.00 43.23
	ATOM								
	AT ON	4470	CB	GLU A 5	300	17.799	62.820	69.519	1.00 38.13

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	MOTA	4535	CA	ARG A	568	12.864	52.166	76.545	1.00 26.30
	ATOM	4536	С	ARG A	568	13.486	52.226	77.882	1.00 28.61
	ATOM	4537	0	ARG A	568	12.876	52.667	78.832	1.00 30.84
_	ATOM	4538	CB	ARG A	568	12.315	50.798	76.251	1.00 18.11
5	ATOM	4539	CG	ARG A	568	11.342	50.919	75.088	1.00 29.19
	MOTA	4540	CD	ARG A	568	10.550	49.660	74.799	1.00 19.19
	ATOM	4541	NE	ARG A		9.707	49.343	75.917	1.00 28.72
	ATOM	4542	CZ	ARG A		9.254	48.138	76.133	1.00 32.39
	ATOM	4543		ARG A		9.528	47.144	75.291	1.00 32.33
10	ATOM	4544		ARG A		8.507	47.930	77.208	1.00 16.44
	ATOM	4545	N	PRO A		14.705	51.774	77.925	1.00 18.44
	ATOM	4546	CA	PRO A					
		4547				15.447	51.709	79.154	1.00 28.01
	ATOM		C	PRO A		15.890	53.042	79.663	1.00 32.18
15	ATOM	4548	0	PRO A		15.974	53.256	80.869	1.00 29.25
15	ATOM	4549	CB	PRO A		16.607	50.732	78.919	1.00 28.83
	MOTA	4550	CG	PRO A		16.330	50.034	77.592	1.00 32.42
	MOTA	4551	CD	PRO A		15.234	50.829	76.893	1.00 29.82
	MOTA	4552	N	LEU A		16.143	53.949	78.741	1.00 31.95
20	ATOM	4553	CA	LEU A	570	16.560	55.270	79.160	1.00 35.11
20	MOTA	4554	С	LEU A	570	15.407	55.962	79.897	1.00 36.24
	MOTA	4555	0	LEU A	570	15.532	56.506	81.028	1.00 34.02
	MOTA	4556	CB	LEU A	570	17.021	56.110	77.932	1.00 37.06
	MOTA	4557	CG	LEU A	570	18.387	55.701	77.343	1.00 41.39
	MOTA	4558	CD1	LEU A	570	18.678	56.462	76.050	1.00 41.06
25	MOTA	4559	CD2	LEU A	570	19.497	55.984	78.353	1.00 37.42
	MOTA	4560	N	PHE A		14.262	55.944	79.211	1.00 30.06
	ATOM	4561	CA	PHE A		13.084	56.541	79.758	1.00 27.27
	ATOM	4562	С	PHE A		12.813	55.899	81.095	1.00 25.94
	ATOM	4563	0	PHE A	571	12.399	56.536	82.030	1.00 27.16
30	ATOM	4564	СВ	PHE A		11.888	56.375	78.828	1.00 27.60
	ATOM	4565	CG	PHE A		11.546	57.616	78.042	1.00 27.70
	ATOM	4566	CD1			11.193	58.820	78.651	1.00 29.97
	ATOM	4567		PHE A		11.557	57.570	76.651	1.00 28.87
	ATOM	4568			571	10.861	59.953	77.910	1.00 28.24
35	ATOM	4569		PHE A		11.233	58.684	75.886	1.00 30.43
	ATOM	4570	CZ	PHE A		10.877	59.875	76.520	1.00 29.55
	ATOM	4571	N	LYS A		13.089	54.618	81.196	1.00 22.77
	ATOM	4572	CA	LYS A		12.845	53.946	82.468	1.00 25.43
	ATOM	4573	C	LYS A		13.783	54.425	83.561	1.00 34.48
40	MOTA	4574	ō	LYS A		13.351	54.920	84.602	1.00 35.11
	ATOM	4575	СВ	LYS A		12.736	52.428	82.392	1.00 26.89
	ATOM	4576	CG	LYS A		11.303	51.911	82.326	1.00 20.89
	ATOM	4577	CD	LYS A		11.219	50.426	81.922	
	ATOM	4578	CE	LYS A		10.975	50.204		1.00 57.87
45	ATOM	4579	NZ	LYS A		11.535	48.954	80.422	1.00 65.25
••	ATOM	4580	N			15.074		79.850	1.00 61.06
	ATOM	4581	CA	ASP A		16.032	54.292	83.319	1.00 31.94
	ATOM	4582	C	ASP A			54.751	84.291	1.00 30.55
	ATOM	4583				15.684	56.166	84.712	1.00 32.26
50			0	ASP A		15.693	56.453	85.895	1.00 31.85
50	MOTA	4584	CB	ASP A		17.453	54.788	83.718	1.00 32.87
	ATOM	4585	CG	ASP A		18.051	53.443	83.487	1.00 33.43
	MOTA	4586		ASP A		17.517	52.422	83.853	1.00 29.11
	MOTA	4587		ASP A		19.206	53.501	82.864	1.00 35.22
55	ATOM	4588	N	LEU A		15.387	57.071	83.745	1.00 29.50
55	MOTA	4589	CA	LEU A		15.062	5B.461	84.109	1.00 27.65
	MOTA	4590	С	LEU A		13.887	58.577	85.075	1.00 32.88
	MOTA	4591	0	LEU A		13.864	59.411	85.962	1.00 31.04
	ATOM	4592	СВ	LEU A		14.844	59.385	82.909	1.00 26.24
60	ATOM	4593	CG	LEU A		16.068	59.567	82.027	1.00 30.41
60	MOTA	4594		LEU A		15.644	59.922	80.582	1.00 28.47
	MOTA	4595		LEU A		16.974	60.659	82.604	1.00 27.06
	ATOM	4596	N	ALA A		12.895	57.723	84.874	1.00 32.80
	ATOM	4597	CA	ALA A		11.709	57.713	85.711	1.00 31.11
	MOTA	4598	С	ALA A	575	12.002	57.140	87.083	1.00 35.71

:

75.925

77.403

1.00 54.78

1.00 59.46

: : :

ATOM

ATOM

4725

4726

OE1 GLU A 590

OE2 GLU A 590

	ATOM	4727	N	HIS A	A 591	6.091	64.031	73.207	1.00	27.57
	ATOM	4728	CA		A 591	6.713	63.384	72.086		25.58
	ATOM	4729	С		A 591	5.928	62.249	71.578		32.34
	ATOM	4730	0		A 591	6.184	61.751	70.496		38.53
5	ATOM	4731	CB		A 591	8.094	62.851	72.487		26.32
	ATOM	4732	CG		A 591	9.219	63.809	72.268		31.06
	ATOM	4733		HIS		9.630	64.680	73.255		32.65
	ATOM	4734		HIS		9.998	64.032	71.169		34.91
	ATOM	4735		HIS		10.635	65.404	72.756		32.01
10	ATOM	4736		HIS		10.884	65.037	71.508		33.36
	ATOM	4737	N		A 592	4.978	61.812	72.337		28.34
	ATOM	4738	CA		A 592	4.254	60.643	71.849		29.96
	ATOM	4739	С		A 592	3.654	60.692	70.432		33.41
	ATOM	4740	ō		A 592	3.819	59.769	69.592		29.05
15	ATOM	4741	СВ		A 592	3.362	59.983	72.888		32.83
	ATOM	4742	CG		A 592	2.435	60.930	73.615		31.14
	ATOM	4743	CD		A 592	1.677	60.203	74.704		38.97
	ATOM	4744	CE		A 592	0.253	60.691	74.890		25.02
	ATOM	4745	NZ		A 592	-0.157	60.632	76.302		45.83
20	ATOM	4746	N		A 593	2.934	61.782	70.187		30.97
	ATOM	4747	CA		A 593	2.260	62.026	68.917		28.47
	ATOM	4748	C		A 593	3.169	61.943	67.703		32.66
	ATOM	4749	Õ		A 593	2.775	61.488	66.639		36.77
	ATOM	4750	СВ		A 593	1.571	63.379	68.954		27.35
25	ATOM	4751	N		A 594	4.384	62.405	67.869		27.08
23	ATOM	4752	CA		A 594	5.345	62.417	66.794		30.04
	ATOM	4753	C		A 594	6.185	61.169	66.760		36.80
	MOTA	4754	Ö		A 594	6.995	60.991	65.848		37.94
	ATOM	4755	CB		A 594	6.292	63.596	66.977		37.69
30	ATOM	4756	OG		A 594	7.199	63.340	68.043		54.55
50	ATOM	4757	N	MET A		6.015	60.340	67.776		
	ATOM	4758	CA	MET A		6.794	59.115	67.898		33.12 33.96
	ATOM	4759	C	MET A		6.200	57.936	67.125		
	MOTA	4760	0		A 595	5.019	57.927	66.809		40.91
35	MOTA	4761	СВ		A 595	6.716	58.686	69.382		50.82
33	ATOM	4762	CG	MET A		7.621	59.371	70.399		34.22
	ATOM	4763	SD	MET A		7.606	58.440	71.962		34.61 39.24
	ATOM	4764	CE		A 595	7.145	59.779	73.084		36.72
	ATOM	4765	N		A 596	6.987	56.897	66.886		26.19
40	ATOM	4766	CA		A 596	6.496	55.657	66.246		23.19
• •	ATOM	4767	C.		A 596	5.438	54.964	67.120		25.21
	MOTA	4768	ŏ		A 596	5.621	54.728	68.311		22.59
	ATOM	4769	CB		A 596	7.657	54.655	66.077		24.41
	MOTA	4770	CG		A 596	7.222	53.366	65.493		30.13
45	ATOM	4771	ND1	HIS A		7.606	52.995			
	ATOM	4772		HIS A		6.421	52.385	64.214 66.005		32.86
	ATOM	4773		HIS A		7.047	51.824	63.974		30.90
	ATOM	4774		HIS A		6.325	51.441	65.031		30.20
	ATOM	4775	N		A 597	4.334	54.587	66.512		27.08
50	ATOM	4776	CA	PRO A		3.217	53.912	67.173		26.35
•	ATOM	4777	C		A 597	3.513	52.851	68.248		37.51
	ATOM	4778	Ö		A 597	2.979	52.900	69.348		41.16
	ATOM	4779	СВ		A 597	2.334	53.307	66.076		26.17
	ATOM	4780	CG	PRO A		3.140	53.426	64.792		
55	ATOM	4781	CD		A 597	4.285	54.418			34.56
	ATOM	4782						65.050		30.06
	ATOM	4783	n Ca	VAL A		4.311	51.850	67.939		33.08
				VAL A		4.585	50.802	68.911		28.39
	ATOM	4784	C	VAL A		5.444	51.307	70.029		29.32
60	ATOM	4785 4786	0	VAL A		5.168	51.096	71.217		29.13
00	ATOM ATOM	4785	CB	VAL A		5.196	49.599	68.210		27.99
				VAL A		5.806	48.608	69.187		26.98
	ATOM	4788		VAL A		4.144	48.944	67.296		26.13
	MOTA	4789	N	THR A		6.480	52.021	69.635		26.10
	ATOM	4790	CA	THR A	1 599	7.370	52.573	70.631	1.00	26.95

PRV SSEZZZ

	MOTA	4791	С	THR A	599	6.650	53.404	71.669	1.00 30.81
	MOTA	4792	0	THR A	599	6.863	53.327	72.871	1.00 31.33
	ATOM	4793	CB	THR A	599	8.413	53.455	69.975	1.00 26.67
	ATOM	4794	OG1			9.092	52.725	68.958	1.00 27.92
5	ATOM	4795	CG2			9.358	53.884	71.092	1.00 20.69
3									
	MOTA	4796	N	ALA A		5.801	54.218	71.135	1.00 26.41
	ATOM	4797	CA	ALA A		4.997	55.111	71.878	1.00 26.39
	ATOM	4798	С	ALA A	600	4.176	54.339	72.860	1.00 32.00
	ATOM	4799	0	ALA A	600	4.162	54.597	74.057	1.00 35.37
10	MOTA	4800	СВ	ALA A		4.090	55.774	70.856	1.00 27.56
	ATOM	4801	N	MET A		3.470	53.380	72.332	1.00 26.26
	ATOM								
		4802	CA	MET A		2.627	52.585	73.167	1.00 26.60
	ATOM	4803	C	MET A		3.439	51.909	74.225	1.00 25.73
	MOTA	4804	0	MET A	601	3.099	51.964	75.381	1.00 25.77
15	ATOM	4805	CB	MET A	601	1.752	51.625	72.353	1.00 30.49
	ATOM	4806	CG	MET A	601	1.024	50.594	73.176	1.00 36.00
	ATOM	4807	SD	MET A		2.043	49.146	73.554	1.00 42.41
	ATOM	4808	CE						
				MET A		1.693	48.128	72.111	1.00 37.75
20	MOTA	4809	N	LEU A		4.538	51.310	73.848	1.00 21.64
20	ATOM	4810	CA	LEU A		5.339	50.671	74.873.	1.00 22.59
	ATOM	4811	С	LEU A	602	6.010	51.650	75.870	1.00 29.61
	MOTA	4812	0	LEU A	602	6.137	51.346	77.039	1.00 27.62
	MOTA	4813	СВ	LEU A	602	6.418	49.760	74.294	1.00 22.14
	ATOM	4814	CG	LEU A		5.916	48.529	73.575	1.00 25.78
25		4815		LEU A					
20	ATOM					7.021	48.087	72.609	1.00 26.02
	ATOM	4816		LEU A		5.651	47.445	74.613	1.00 21.01
	MOTA	4817	N	VAL A	603	6.508	52.805	75.445	1.00 27.15
	MOTA	4818	CA	VAL A	603	7.145	53.684	76.413	1.00 26.39
	ATOM	4819	С	VAL A	603	6.121	54.157	77.438	1.00 32.60
30	ATOM	4820	0	VAL A		6.436	54.235	78.621	1.00 35.31
	ATOM	4821	CB	VAL A		7.917	54.832	75.760	1.00 27.78
			_						
	ATOM	4822		VAL A		8.286	55.887	76.774	1.00 24.54
	ATOM	4823		VAL A		9.172	54.286	75.094	1.00 27.29
2.5	ATOM	4824	N	GLY A	604	4.878	54.434	76.976	1.00 27.44
35	ATOM	4825	CA	GLY A	604	3.759	54.856	77.819	1.00 27.58
	MOTA	4826	C	GLY A	604	3.418	53.797	78.905	1.00 37.00
	ATOM	4827	0	GLY A		3.088	54.102	80.072	1.00 36.56
	ATOM	4828	N	LYS A		3.511	52.522	78.520	1.00 32.54
	ATOM	4829	CA	LYS A		3.250	51.415	79.459	1.00 32.34
40									
40	MOTA	4830	С	LYS A		4.312	51.405	80.539	1.00 35.15
	ATOM	4831	0	LYS A		4.040	51.347	81.734	1.00 33.77
	ATOM	4832	CB	LYS A	605	3.231	50.034	78.782	1.00 33.59
	ATOM	4833	CG	LYS A	605	1.837	49.438	78.576	1.00 42.45
	MOTA	4834	CD	LYS A	605	1.846	48.115	77.815	1.00 60.83
45	MOTA	4835	CE	LYS A		1.223	46.946	78.578	1.00 86.38
	ATOM	4836	NZ	LYS A		2.188	46.179	79.385	1.00 93.05
			-						
	ATOM	4837	N	ASP A		5.544	51.470	80.056	1.00 32.91
	ATOM	4838	CA	ASP A		6.715	51.510	80.878	1.00 31.82
• •	MOTA	4839	С	ASP A	606	6.549	52.667	81.833	1.00 36.24
50	ATOM	4840	0	ASP A	606	6.652	52.503	83.045	1.00 35.19
	ATOM	4841	CB	ASP A	606	7.983	51.702	80.027	1.00 32.52
	ATOM	4842	CG	ASP A		8.302	50.525	79.134	1.00 40.01
	MOTA	4843		ASP A		7.934	49.378	79.344	1.00 40.49
55	ATOM	4844		ASP A		9.038	50.869	78.111	1.00 41.73
55	ATOM	4845	N	LEU A		6.240	53.833	81.266	1.00 34.45
	ATOM	4846	CA	LEU A		6.152	54.972	82.185	1.00 36.03
	MOTA	4847	С	LEU A	607	4.814	55.018	82.968	1.00 42.35
	ATOM	4848	0	LEU A		4.600	55.872	83.824	1.00 41.57
	ATOM	4849	CB	LEU A		6.321	56.250	81.364	1.00 36.90
60	ATOM	4850	CG	LEU A					
50						7.779	56.490	80.974	1.00 38.75
	ATOM	4851		LEU A		7.954	57.746	80.132	1.00 34.34
	MOTA	4852		LEU A		8.695	56.653	82.183	1.00 41.97
	ATOM	4853	N	LYS A	608	3.895	54.062	82.586	1.00 45.01
	ATOM	4854	CA	LYS A		2.576	53.874	83.264	1.00 46.99

	MOTA	4855	С	LYS	Α	608	1.6	525	55.088	83.181	1.00 51.31
	MOTA	4856	0	LYS	Α	608	0.9	886	55.467	84.151	1.00 51.35
	MOTA	4857	CB	LYS	Α	608	2.8	313	53.510	84.750	1.00 50.83
	ATOM	4858	CG	LYS	Α	608	3.3	331	52.093	84.949	1.00 63.57
5	ATOM	4859	CD	LYS	Α	608	4.4	105	52.019	86.031	1.00 77.03
	MOTA	4860	CE	LYS	Α	608	5.3	341	50.825	85.858	1.00 96.40
	MOTA	4861	NZ	LYS	Α	608	6.0	034	50.554	87.117	1.00100.00
	MOTA	4862	N	VAL	Α	609	1.	560	55.724	81.991	1.00 50.28
	MOTA	4863	CA	VAL	Α	609	0.0	688	56.901	81.852	1.00 50.89
10	ATOM	4864	С	VAL	Α	609	-0.4	194	56.660	80.897	1.00 60.23
	ATOM	4865	0	VAL	Α	609	-1.6	640	56.952	81.194	1.00 63.02
	ATOM	4866	CB	VAL	Α	609	1.5	533	58.091	81.364	1.00 54.72
	ATOM	4867		VAL	A	609		996	58.926	82.551	1.00 54.87
	ATOM	4868		VAL				744	57.607	80.605	1.00 54.46
15	ATOM	4869	N	ASP			-0.		56.152	79.687	1.00 58.84
	ATOM	4870	CA	ASP			-1.2		55.949	78.699	1.00 99.84
	ATOM	4871	С	ASP			-2.0		54.695	79.001	1.00100.00
	ATOM	4872	ŏ	ASP			-3.2		54.615	78.711	1.00 69.75
	ATOM	4873	СВ	ASP			-0.		55.818	77.316	1.00100.00
20	ATOM	4874	CG	ASP			-0.0		57.161	76.610	1.00 92.61
	ATOM	4875		ASP			-1.4		57.999	77.018	1.00 90.49
	ATOM	4876		ASP				134	57.355	75.670	1.00 89.29
	ATOM		ZN2+		Z	1	17.0		38.803	64.180	1.00 28.37
	ATOM		YB3+		Y	1	43.0		51.068	98.864	1.00 34.70
25	ATOM		YB3+		Ÿ	2	13.		56.771	52.040	0.50 57.25
	ATOM		YB3+		Y	3	10.		57.860	52.381	0.50 36.57
	ATOM	4881	CG,	IMD		1	26.		42.039	80.754	1.00 28.44
	ATOM	4882		IMD	Ī	1	26.		42.254	79.400	1.00 28.35
	ATOM	4883		IMD	Ī	ī	27.		41.726	80.902	1.00 17.99
30	ATOM	4884				1	27.		42.063	78.760	1.00 29.77
20	ATOM	4885	NE2	IMD	Ī	1	28.		41.745	79.647	1.00 35.02
	ATOM	4886	CB	ACE		1	13.		12.333	68.475	1.00 59.33
	ATOM	4887	CG	ACE		1	12.		13.331	69.306	1.00 42.98
	ATOM	4888		ACE		1	12.		14.536	69.146	1.00 39.66
35	ATOM	4889		ACE		1	12.		12.759	70.236	1.00 47.21
33	ATOM	4890	C6	INH		1		422	38.514	70.154	1.00 38.70
	ATOM	4891	C5	INH		1		571	39.820	69.689	1.00 37.05
	ATOM	4892	C4	INH		1		901	40.062	68.354	1.00 37.03
	ATOM	4893	C3	INH		î		091	38.967	67.505	1.00 35.48
40	ATOM	4894	C2	INH		î		944	37.650	67.949	1.00 31.90
	ATOM	4895	C1	INH		ī		611	37.434	69.286	1.00 36.93
	ATOM	4896	c7	INH		ī		071	41.463	67.833	1.00 32.28
	ATOM	4897	01	INH		ī		288	41.443	66.485	1.00 37.06
	ATOM	4898	C8	INH		1		584	41.740	66.129	1.00 32.34
45	ATOM	4899	C9	INH		1		825	42.911	65.416	1.00 31.03
	ATOM	4900		INH				127	43.216		1.00 33.64
	ATOM	4901	_	INH		1	12.		42.381	65.339	1.00 31.88
	ATOM	4902		INH		i	11.		41.198	66.028	1.00 31.07
	ATOM	4903		INH		1	10.		40.858	66.412	1.00 31.07
50	ATOM	4904		INH		1	13.		42.710	64.882	1.00 32.51
3.0	ATOM	4905		INH		ī	14.		41.560	64.121	1.00 34.69
	ATOM	4906		INH		ī	15.		41.849	63.754	1.00 28.88
	ATOM	4907	S1	INH		1	16.		40.755	64.790	1.00 29.16
	ATOM	4908	N1	INH		ī	13.		40.805	63.099	1.00 30.69
55	ATOM	4909	0	нон		1	44.		49.888	77.523	1.00 46.91
	ATOM	4910	Ö	нон		2	13.		27.803	78.018	1.00 20.07
	ATOM	4911	Ö	нон		3		225	69.721	58.393	1.00 27.76
	ATOM	4912	Ö	нон		4	15.		28.826	61.823	1.00 22.81
	ATOM	4913	Ö	нон		5	22.		26.624	42.874	1.00 53.05
60	ATOM	4913	0	нон		6		423	46.452	57.584	1.00 33.03
00	ATOM	4914	0	HOH		7	17.		46.452	68.524	1.00 32.22
	ATOM	4916				8				83.716	1.00 31.91
			0	HOH		9	22.		45.895		1.00 39.37
	ATOM	4917	0	HOH			17.		39.158	\$5.643	
	ATOM	4918	0	нон	W	10	12.	437	36.303	59.209	1.00 31.46

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	а пом	4010	_		11	17 267	60 700	50 000	
	ATOM ATOM	4919 4920	0	HOH W	11 12	17.367	62.730	50.320	1.00 37.74
	ATOM	4921	0	HOH W	13	42.823 34.337	52.642	90.552	1.00 53.80
	ATOM	4922	0	HOH W	14	6.726	45.508 27.119	97.419 48.459	1.00 57.99 1.00 62.29
5	ATOM	4923	0	HOH W	15	-0.093	30.159	71.746	1.00 62.29
•	ATOM	4924	o	HOH W	16	-19.673	44.016	58.682	1.00 29.96
	MOTA	4925	ō	HOH W	17	16.563	26.790	80.837	1.00 38.62
	ATOM	4926	ō	HOH W	18	10.281	35.677	88.518	1.00 36.02
	ATOM	4927	ō	HOH W	19	20.973	35.691	44.774	1.00 49.50
10	ATOM	4928	ō	HOH W	20	0.996	19.571	53.713	1.00 67.39
	MOTA	4929	o	HOH W	21	20.424	37.014	85.845	1.00 39.54
	ATOM	4930	0	HOH W	22	-2.498	35.905	53.781	1.00 51.70
	ATOM	4931	0	HOH W	23	39.807	49.718	92.595	1.00 37.39
	ATOM	4932	0	HOH W	24	16.431	58.267	93.127	1.00 47.45
15	ATOM	4933	0	HOH W	25	6.935	45.104	66.012	1.00 18.12
	ATOM	4934	0	HOH W	26	40.479	54.713	100.253	1.00 28.72
	ATOM	4935	0	HOH W	27	22.369	40.324	67.919	1.00 46.36
	ATOM	4936	0	HOH W	28	37.289	49.457	68.016	1.00 61.37
••	ATOM	4937	0	HOH W	29	2.611	35.015	55.709	1.00 24.45
20	MOTA	4938	0	HOH W	30	41.088	62.590	98.644	1.00 65.38
	ATOM	4939	0	HOH W	31	17.369	55.024	87.465	1.00 24.22
	ATOM	4940	0	HOH W	32	25.433	20.198	55.692	1.00 44.61
	ATOM	4941	0	HOH W	33	3.890	42.770	66.651	1.00 22.34
25	ATOM	4942	0	HOH W	34	3.934	63.391	62.592	1.00 60.69
23	ATOM	4943	0	HOH W	35	22.280	41.610	86.289	1.00 74.20
	ATOM	4944	0	HOH W	36	22.631	46.401	90.078	1.00 47.44
	ATOM	4945	0	HOH W	37	33.442	20.227	64.569	1.00 55.41
	ATOM ATOM	4946	0	HOH W	38	39.834	28.974	75.602	1.00 41.72
30	ATOM	4947 4948	0	HOH W	39	35.232	47.140	54.186	1.00 37.08
30	ATOM	4949	0	HOH W	40 41	36.003 37.216	57.784	57.893	1.00 43.05
	ATOM	4950	0	HOH W	42	17.770	27.438 67.012	74.564 77.183	1.00 50.79 1.00 45.78
	ATOM	4951	Ö	HOH W	43	5.341	31.286	78.127	1.00 45.78
	ATOM	4952	ŏ	HOH W	44	33.535	32.503	52.063	1.00 25.34
35	ATOM	4953	ŏ	HOH W	45	25.477	33.146	44.610	1.00 65.43
	ATOM	4954	ō	HOH W	46	16.235	37.438	52.628	1.00 32.10
	ATOM	4955	ō	HOH W	47	28.791	14.101	63.316	1.00 46.67
	ATOM	4956	0	HOH W	48	10.230	24.992	86.967	1.00 38.63
	MOTA	4957	0	HOH W	49	30.821	38.856	79.630	1.00 40.44
40	MOTA	4958	0	HOH W	50	12.621	37.226	62.944	1.00 26.70
	ATOM	4959	0	HOH W	51	27.987	30.609	66.612	1.00 33.55
	MOTA	4960	0	HOH W	52	34.459	28.696	64.242	1.00 51.01
	MOTA	4961	0	HOH W	53	34.969	62.270	91.179	1.00 68.20
AE	ATOM	4962	0	HOH W	54	33.631	30.717	62.396	1.00 41.64
45	MOTA	4963	0	HOH W	55	43.987	48.530	91.269	1.00 50.99
	ATOM	4964	0	HOH W	56	23.412	28.584	85.186	1.00 69.23
	ATOM	4965	0	HOH W	57	39.834	28.057	72.257	1.00 81.00
	ATOM	4966	0	HOH W	58	2.892	25.685	69.907	1.00 38.96
50	ATOM	4967	0	HOH W	59	10.284	47.120	72.671	1.00 40.28
50	ATOM	4968	0	HOH W	60	32.645	39.037	76.746	1.00 21.71
	ATOM ATOM	4969 4970	0	HOH W	61	43.535	48.019	95.228	1.00 37.69
	ATOM	4971	0	HOH W	62	11.991	51.053	43.479	1.00 41.05
	ATOM	4972	0	HOH W	63 64	18.329 16.555	56.527 9.309	89.388	1.00 28.51
55	ATOM	4973	ŏ	HOH W	65	23.741	44.759	68.8 <b>75</b> 73.150	1.00 89.05 1.00 38.43
	ATOM	4974	ŏ	HOH W	66	19.093	53.805	41.239	1.00 55.25
	ATOM	4975	ŏ	HOH W	67	31.750	60.369	56.933	1.00 33.23
	ATOM	4976	ŏ	HOH W	68	24.836	68.428	80.926	1.00 59.25
	ATOM	4977	ō	HOH W	69	-21.014	19.446	48.342	1.00 52.24
60	ATOM	4978	ō	HOH W	70	11.318	68.028	86.566	1.00 32.24
	ATOM	4979	Ō	нон w	71	5.312	60.076	63.511	1.00 36.83
	MOTA	4980	0	HOH W	72	7.689	20.219	84.680	1.00 32.24
	ATOM	4981	0	HOH W	73	34.988	44.708	64.746	1.00 40.73
	MOTA	4982	0	HOH W	74	10.614	49.644	41.337	1.00 38.90

	ATOM	4983	0	HOH W 75	19.349	42.973	64.739	1.00 54.53
	MOTA	4984	0	HOH W 76	35.916	30.862	80.753	1.00 55.38
	ATOM	4985	0	HOH W 77	9.666	26.046	46.603	1.00 40.09
	ATOM	4986	ō	HOH W 78	-10.171	46.751	60.237	1.00 29.78
5	ATOM	4987	ō	HOH W 79	46.751	58.883	86.875	1.00 35.92
	ATOM	4988	ō	HOH W 80	19.320	32.528	51.000	1.00 33.36
	ATOM	4989	Ö	HOH W 81	28.815	39.568	66.176	1.00 59.19
	ATOM	4990	ŏ	HOH W 82	38.207	35.773	73.585	1.00 17.81
	MOTA	4991	ō	HOH W 83	23.802	33.773	75.175	1.00 25.19
10	ATOM	4992	o	HOH W 84	42.241	51.290	99.896	1.00 25.19
10	ATOM	4993	0					
	ATOM	4994			3.751 -7.009	36.678	58.842	1.00 24.97
		4995	0			40.341	62.580	1.00 25.39
	ATOM		0	HOH W 87	11.735	58.910	68.155	1.00 39.70
15	ATOM	4996	0	HOH W 88	13.986	52.835	42.224	1.00 50.91
13	ATOM	4997	0	HOH W 89	1.452	46.541	69.459	1.00 35.03
	MOTA	4998	0	HOH W 90	-1.938	55.310	56.971	1.00 28.10
	ATOM	4999	0	HOH W 91	13.801	66.947	52.600	1.00 38.65
	MOTA	5000	0	HOH W 92	21.594	47.218	79.203	1.00 30.31
20	ATOM	5001	0	HOH W 93	10.639	58.632	90.827	1.00 43.78
20	ATOM	5002	0	HOH W 94	33.335	53.550	68.086	1.00 37.04
	MOTA	5003	0	HOH W 95	-1.984	28.738	60.212	1.00 31.56
	ATOM	5004	0	HOH W 96	-4.958	51.055	59.250	1.00 34.00
	MOTA	5005	0	HOH W 97	17.610	39.701	51.503	1.00 28.27
	ATOM	5006	0	HOH W 98	10.686	54.166	67.565	1.00 37.68
25	ATOM	5007	0	HOH W 99	20.567	43.859	78.621	1.00 41.57
	ATOM	5008	0	HOH W 100	7.013	22.332	69.109	1.00 28.72
	ATOM	5009	0	HOH W 101	10.097	53.225	78.477	1.00 35.68
	ATOM	5010	0	HOH W 102	10.849	31.404	53.014	1.00 32.22
	ATOM	5011	0	HOH W 103	42.381	59.035	94.728	1.00 36.00
30	ATOM	5012	0	HOH W 104	17.234	41.111	54.082	1.00 33.65
	MOTA	5013	0	HOH W 105	26.902	62.025	81.989	1.00 34.70
	ATOM	5014	0	HOH W 106	-14.313	49.559	56.204	1.00 54.36
	ATOM	5015	0	HOH W 107	41.646	57.501	101.015	1.00 68.12
	ATOM	5016	0	HOH W 108	26.759	43.000	47.219	1.00 32.69
35	ATOM	5017	0	HOH W 109	16.624	48.119	46.545	1.00 38.64
	ATOM	5018	0	HOH W 110	26.159	32.793	75.230	1.00 24.77
	ATOM	5019	0	HOH W 111	2.101	33.468	67.006	1.00 31.50
	MOTA	5020	0	HOH W 112	38.114	36.374	87.451	1.00 44.06
	ATOM	5021	0	HOH W 113	13.211	29.810	61.356	1.00 33.81
40	ATOM	5022	ō	HOH W 114	-3.064	37.863	40.673	1.00 37.92
	ATOM	5023	ō	HOH W 115	15.007	47.948	69.488	1.00 28.23
	ATOM	5024	ō	HOH W 116	27.101	66.633	80.518	1.00 41.24
	ATOM	5025	ō	HOH W 117	11.870	38.304	43.174	1.00 40.85
	ATOM	5026	ō	HOH W 118	-13.844	25.597	58.258	1.00 40.05
45	ATOM	5027	ŏ	HOH W 119	2.929	41.135	59.858	1.00 36.49
••	ATOM	5028	ŏ					
	ATOM	5029	ŏ	нон w 120 НОН W 121	24.890 36.062	45.490 59.335	82.167	1.00 41.65
	ATOM	5030	Ö	HOH W 122	-10.715	32.037	75.090 61.699	1.00 38.82
	ATOM	5031	0	HOH W 123				
50	ATOM	5032	0	HOH W 124	-2.646 -8.948	25.492	60.812	1.00 48.40
50	ATOM	5032	0	HOH W 125		46.831	63.556	1.00 48.06
		5034			-17.843	39.367	36.020	1.00 35.80
	ATOM ATOM		0	HOH W 126	2.218	57.766	62.253	1.00 44.61
		5035	0	HOH W 127	10.736	62.766	64.366	1.00 55.84
55	ATOM	5036	0	HOH W 128	0.884	35.562	63.963	1.00 44.14
<i>JJ</i>	ATOM	5037	0	HOH W 129	19.165	59.557	60.644	1.00 47.82
	MOTA	5038	0	HOH W 130	1.546	27.875	68.443	1.00 39.69
	ATOM	5039	0	HOH W 131	5.497	26.285	76.668	1.00 44.47
	ATOM	5040	0	HOH W 132	14.505	36.538	88.996	1.00 40.00
<i>(</i> 0	MOTA	5041	0	HOH W 133	8.534	28.713	88.519	1.00 46.55
60	MOTA	5042	0	HOH W 134	6.125	45.267	77.959	1.00 45.57
	ATOM	5043	0	HOH W 135	26.016	18.543	78.878	1.00 51.65
	ATOM	5044	0	HOH W 136	33.880	23.025	70.739	1.00 46.95
	ATOM	5045	0	HOH W 137	19.230	26.073	49.998	1.00 51.97
	ATOM	5046	0	HOH W 138	41.563	41.085	77.326	1.00 43.14
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	ATOM	5047	0	HOH W 139	39.187	63.067	75.380	1.00 56.52
	ATOM	5048	ō	HOH W 140	26.878	54.491	67.203	1.00 42.14
	ATOM	5049	ō	HOH W 141	22.988	62.189	74.174	1.00 48.31
	ATOM	5050	ō	HOH W 142	25.190	62.803	71.067	1.00 67.16
5	ATOM	5051	ō	HOH W 143	18.598	45.126	81.949	1.00 53.80
	ATOM	5052	ō	HOH W 144	19.782	53.129	90.556	1.00 48.73
	ATOM	5053	ō	HOH W 145	21.735	48.367	86.454	1.00 40.73
	ATOM	5054	ŏ	HOH W 146	25.707	57.012	93.476	1.00 40.39
	ATOM	5055	ō	HOH W 147	22.832	62.085	93.149	
10	ATOM	5056	ŏ	HOH W 148	25.725	67.203	89.990	1.00 46.02 1.00 75.23
	ATOM	5057	ŏ	HOH W 149	10.773	53.653	85.697	1.00 73.23
	ATOM	5058	Ö	HOH W 150	4.221	58.449	86.608	
	ATOM	5059	Ö	HOH W 151	7.790	72.096		1.00 49.23
	ATOM	5060	0	HOH W 152	2.387		84.410	1.00 51.10
15	ATOM	5061	0	HOH W 153		58.282	67.835	1.00 33.29
10	ATOM	5062	0		0.921	49.551	69.095	1.00 59.60
	ATOM	5062	_	HOH W 154	8.722	45.171	71.561	1.00 46.56
	ATOM	5064	0	HOH W 155	6.422	47.947	81.081	1.00 57.56
			0	HOH W 156	15.936	56.908	55.129	1.00 43.33
20	ATOM	5065 5066	0	HOH W 157	3.032	19.635	62.453	1.00 80.38
20	ATOM	5066	0	HOH W 158	-4.228	58.058	47.057	1.00 39.66
	ATOM	5067	0	HOH W 159	1.197	41.002	78.942	1.00 57.22
	ATOM	5068	0	HOH W 160	1.259	43.651	68.100	1.00 37.94
	ATOM	5069	0	HOH W 161	25.799	64.833	56.690	1.00 38.96
25	ATOM	5070	0	HOH W 162	-11.853	45.054	45.070	1.00 38.38
23	ATOM	5071	0	HOH W 163	40.159	31.033	78.548	1.00 75.36
	ATOM	5072	0	HOH W 164	21.477	20.377	79.349	1.00 35.96
	ATOM	5073	0	HOH W 165	26.347	44.558	72.803	1.00 42.21
	ATOM	5074	0	HOH W 166	16.446	61.207	59.687	1.00 39.70
30	ATOM	5075	0	HOH W 167	27.695	64.216	82.410	1.00 44.71
30	ATOM	5076	0	HOH W 168	-2.998	57.511	34.738	1.00 45.35
	ATOM	5077	0	HOH W 169	6.608	51.527	60.826	1.00 39.48
	ATOM	5078	0	HOH W 170	31.104	28.934	81.337	1.00 43.19
	ATOM	5079	0	HOH W 171	10.135	28.233	45.533	1.00 41.24
35	ATOM	5080	0	HOH W 172	8.201	43.960	75.322	1.00 37.71
33	ATOM	5081	0	HOH W 173	13.799	66.601	85.597	1.00 34.74
	ATOM	5082	0	HOH W 174	16.664	53.670	65.006	1.00 43.69
	ATOM	5083	0	HOH W 175	18.301	47.296	43.793	1.00 45.84
	ATOM	5084	0	HOH W 176	11.717	61.868	52.648	1.00 34.93
40	ATOM	5085	0	HOH W 177	29.516	23.822	76.838	1.00 51.50
40	ATOM	5086	0	HOH W 178	39.940	60.509	78.535	1.00 46.33
	MOTA	5087	0	HOH W 179	-1.803	44.974	37.278	1.00 52.56
	ATOM	5088	0	HOH W 180	7.343	47.305	65.468	1.00 47.27
	MOTA	5089	0	HOH W 181	17.912	15.338	81.793	1.00 50.08
4.5	ATOM	5090	0	HOH W 182	-4.631	55.917	82.183	1.00 65.36
45	MOTA	5091	0	HOH W 183	32.973	42.656	86.667	1.00 43.97
	MOTA	5092	0	HOH W 184	-1.834	36.784	71.040	1.00 45.10
	ATOM	5093	0	HOH W 185	-4.519	34.633	71.838	1.00 43.99
	MOTA	5094	0	HOH W 186	4.518	68.554	71.661	1.00 46.99
50	ATOM	5095	0	HOH W 187	2.774	37.503	61.490	1.00 45.81
50	MOTA	5096	0	HOH W 188	31.770	43.526	51.410	1.00 58.02
	ATOM	5097	0	HOH W 189	5.471	43.861	38.891	1.00 49.43
	ATOM	5098	0	HOH W 190	11.934	58.219	70.811	1.00 49.96
	MOTA	5099	0	HOH W 191	33.112	26.203	70.484	1.00 60.03
E E	MOTA	5100	0	HOH W 192	30.914	43.017	70.613	1.00 73.23
55	MOTA	5101	0	HOH W 193	0.400	39.300	39.714	1.00 65.37
	MOTA	5102	0	HOH W 194	48.247	56.159	86.370	1.00 60.09
	ATOM	5103	0	HOH W 195	12.359	59.992	62.698	1.00 53.57
	ATOM	5104	0	HOH W 196	11.149	17.504	78.264	1.00 54.43
<b>.</b>	ATOM	5105	0	HOH W 197	-4.284	31.953	60.991	1.00 47.12
60	ATOM	5106	0	HOH W 198	29.888	35.624	82.772	1.00 52.16
	MOTA	5107	0	HOH W 199	14.388	39.115	89.656	1.00 47.93
	MOTA	5108	0	HOH W 200	-8.529	51.475	47.745	1.00 61.00
	ATOM	5109	0	HOH W 201	-15.572	53.338	52.008	1.00 72.42
	ATOM	5110	0	HOH W 202	24.319	38.590	87.128	1.00 50.03

	MOTA	5111	0	HOH W 203	25.366	70.670	82.839	1.00 49.01
	MOTA	5112	0	HOH W 204	18.531	27.749	86.236	1.00 48.64
	ATOM	5113	0	HOH W 205	21.694	20.030	81.796	1.00 49.04
_	MOTA	5114	0	HOH W 206	23.953	47.993	67.580	1.00 40.39
5	MOTA	5115	0	HOH W 207	22.012	40.217	90.228	1.00 42.29
	ATOM	5116	0	HOH W 208	16.197	45.094	43.427	1.00 48.00
	MOTA	5117	0	HOH W 209	21.019	68.985	84.382	1.00 56.50
	ATOM	5118	0	HOH W 210	-7.134	33.015	71.591	1.00 56.31
10	ATOM	5119	0	HOH W 211	40.843	44.050	89.284	1.00 43.07
10	MOTA	5120	0	HOH W 212	20.374	14.856	56.642	1.00 50.07
	MOTA	5121	0	HOH W 213	12.723	46.277	73.748	1.00 59.15
	MOTA	5122	0	HOH W 214	8.956	43.704	58.706	1.00 45.56
	ATOM	5123	0	HOH W 215	-2.433	36.012	80.232	1.00 54.12
1.5	MOTA	5124	0	HOH W 216	5.257	25.271	55.914	1.00 53.23
15	MOTA	5125	0	HOH W 217	13.354	64.403	53.862	1.00 47.27
	MOTA	5126	0	HOH W 218	30.477	42.517	67.472	1.00 48.17
	ATOM	5127	0	HOH W 219	14.139	47.479	76.123	1.00 79.04
	MOTA	5128	0	HOH W 220	0.829	29.563	50.769	1.00 48.10
20	MOTA	5129	0	HOH W 221	32.979	51.667	96.624	1.00 51.30
20	ATOM	5130	0	HOH W 222	14.677	45.948	71.756	1.00 52.31
	ATOM	5131	0	HOH W 223	33.890	24.505	58.094	1.00 43.65
	MOTA	5132	0	HOH W 224	17.853	9.519	65.560	1.00 55.94
	MOTA	5133	0	HOH W 225	37.794	31.473	62.305	1.00 50.38
25	ATOM	5134	0	HOH W 226	29.206	50.335	62.673	1.00 45.43
25	ATOM	5135	0	HOH W 227	4.932	48.808	63.354	1.00 42.45
	MOTA	5136	0	HOH W 228	18.933	59.070	55.899	1.00 50.29
	ATOM	5137	0	HOH W 229	13.849	18.833	83.641	1.00 55.89
	MOTA	5138	0	HOH W 230	25.919	46.022	68.076	1.00 35.63
20	ATOM	5139	0	HOH W 231	27.565	65.098	75.153	1.00 73.11
30	MOTA	5140	0	HOH W 232	27.128	39.012	68.497	1.00 40.77
	ATOM	5141	0	HOH W 233	40.706	52.468	74.641	1.00 51.60
	ATOM	5142	0	HOH W 234	21.689	65.312	58.080	1.00 66.72
	ATOM	5143	0	HOH W 235	9.121	17.615	59.271	1.00 51.98
35	ATOM	5144	0	HOH W 236	17.931	36.565	88.091	1.00 54.77
33	ATOM	5145	0	HOH W 237	33.843	36.707	52.576	1.00 61.60 1.00 43.64
	ATOM	5146	0	HOH W 238	-3.693	50.074	63.986	1.00 43.64
	ATOM	5147 5148	0	HOH W 239 HOH W 240	44.272 2.092	44.279 28.868	81.461 52.894	1.00 54.01
	ATOM ATOM	5149	0	HOH W 241	8.309	33.518	71.442	1.00 54.01
40		5150	0	HOH W 241	1.051	31.947	69.204	1.00 52.88
40	ATOM	5150	0	HOH W 242	44.255	51.162	96.650	1.00 32.00
	ATOM ATOM	5152	0	HOH W 244	16.173	45.408	46.636	1.00 20.00
		5153	0	HOH W 244	41.130	50.734	97.991	1.00 20.00
	ATOM	5154	_		36.912	36.263	75.911	1.00 20.00
45	ATOM		0	HOH W 246			54.728	1.00 20.00
43	ATOM	5155	0	HOH W 247	-17.107	27.146		1.00 20.00
	ATOM	5156	_	HOH W 248	24.078	46.307	79.123	1.00 20.00
	ATOM	5157 5158	0	HOH W 249 HOH W 250	-12.250	47.964	61.593 51.682	1.00 20.00
	ATOM	5158	0	HOH W 251	35.804	51.343	69.750	1.00 20.00
50	ATOM	5159	0	HOH W 251	25.537 0.539	59.940	62.088	1.00 20.00
50	ATOM	2100	U	non w 232	0.539	55.427	02.008	1.00 20.00
	END			•				

	CRYST	67.	770	132.4	70 83.	700 90.0	0 90.00	90.00	P21212
_			Atom		Chain No		У	z	occ B-factor
5	ATOM	1	N	PRO A	. 1	-2.215	16.942	65.912	1.00 98.67
	ATOM	2	CA	PRO A	. 1	-2.492	18.109	66.739	1.00 96.57
	ATOM	3	С	PRO A	. 1	-1.985	19.345	66.046	1.00 90.92
	ATOM	4	0	PRO A	. 1	-0.791	19.459	65.732	1.00 87.94
	ATOM	5	CB	PRO A	. 1	-1.747	17.907	68.073	1.00 98.18
10	ATOM	6	CG	PRO A	. 1	-1.000	16.573	67.973	1.00100.00
	ATOM	7	CD	PRO A	. 1	-1.249	16.011	66.573	1.00 97.96
	MOTA	8	N	GLU A	. 2	-2.895	20.262	65.790	1.00 83.08
	MOTA	9	CA	GLU A	. 2	-2.492	21.448	65.116	1.00 81.25
	ATOM	10	С	GLU A	. 2	-1.948	22.471	66.074	1.00 80.21
15	ATOM	11	0	GLU A	. 2	-2.444	22.625	67.189	1.00 80.90
	ATOM	12	CB	GLU A	. 2	-3.549	22.038	64.168	1.00 82.10
	ATOM	13	CG	GLU A		-2.895	22.838	63.023	1.00 92.94
	ATOM	14	CD	GLU A	. 2	-1.451	22.466	62.778	1.00 95.77
	ATOM	15	OE1	GLU A		-0.520	23.237	62.917	1.00 94.64
20	ATOM	16	OE2	GLU A		-1.307	21.231	62.383	1.00 74.00
	ATOM	17	N	ILE A		-0.898	23.141	65.624	1.00 69.91
	ATOM	18	CA	ILE A		-0.300	24.192	66.393	1.00 66.19
	ATOM	19	С	ILE A		-1.124	25.431	66.042	1.00 60.35
	ATOM	20	0	ILE A		-1.438	25.713	64.866	1.00 60.57
25	ATOM	21	CB	ILE A		1.215	24.316	66.167	1.00 69.46
	ATOM	22	CG1	ILE A		1.919	23.117	66.809	1.00 69.22
	ATOM	23	CG2	ILE A	. 3	1.772	25.604	66.769	1.00 70.57
	ATOM	24	CD1	ILE A		2.674	23.468	68.090	1.00 67.16
	ATOM	25	N	VAL A	4	-1.546	26.135	67.071	1.00 47.12
30	ATOM	26	CA	VAL A	4	-2.372	27.296	66.856	1.00 43.66
	ATOM	27	С	VAL A	4	-1.621	28.601	66.943	1.00 36.61
	MOTA	28	0	VAL A		-0.804	28.799	67.843	1.00 33.97
	ATOM	29	CB	VAL A	4	-3.580	27.282	67.811	1.00 46.37
	ATOM	30	CG1	VAL A	4	-4.296	28.636	67.855	1.00 44.31
35	ATOM	31	CG2	VAL A	4	-4.552	26.203	67.353	1.00 45.89
	ATOM	32	N	ASP A	. 5	-1.920	29.496	65.997	1.00 25.42
	ATOM	33	CA	ASP A		-1.311	30.793	66.050	1.00 22.70
	MOTA	34	С	ASP A		-2.262	31.630	66.874	1.00 26.31
	MOTA	35	0	ASP A	. 5	-3.285	32.069	66.397	1.00 25.00
40	ATOM	36	CB	ASP A		-1.083	31.454	64.687	1.00 23.91
	ATOM	37	CG	ASP A		-0.248	32.685	64.868	1.00 28.48
	ATOM	38	OD1	ASP A	. 5	-0.199	33.272	65.935	1.00 27.12
	ATOM	39		ASP A		0.383	33.068	63.776	1.00 23.01
	ATOM	40	N	THR A		-1.942	31.792	68.144	1.00 25.96
45	ATOM	41	CA	THR A	6	-2.799	32.525	69.029	1.00 23.74
	ATOM	42	С	THR A	6	-2.689	34.005	68.859	1.00 27.92
	ATOM	43	0	THR A	6	-3.169	34.763	69.701	1.00 31.80
	ATOM	44	CB	THR A	6	-2.629	32.111	70.483	1.00 25.94
	ATOM	45		THR A		-1.315	32.422	70.891	1.00 40.88
50	MOTA	46	CG2	THR A	6	-2.867	30.609	70.627	1.00 29.05
	ATOM	47	N	CYS A		-2.068	34.442	67.779	1.00 23.72
	MOTA	48	CA	CYS A	7	-1.967	35.893	67.566	1.00 24.38
	MOTA	49	С	CYS A		-2.737	36.321	66.325	1.00 28.42
	ATOM	50	0	CYS A	7	-2.766	37.475	65.965	1.00 27.59
<i>55</i> .	ATOM	51	CB	CYS A	7	-0.516	36.435	67.449	1.00 23.86
	ATOM	52	SG	CYS A	7	0.510	36.080	68.886	1.00 29.33
	ATOM	53	N	SER A	8	-3.324	35.370	65.638	1.00 27.23
	MOTA	54	CA	SER A		-4.020	35.686	64.419	1.00 25.64
	ATOM	55	С	SER A		-5.479	35.340	64.538	1.00 25.31
60	MOTA	56	0	SER A		-5.867	34.421	65.273	1.00 22.83
	MOTA	57	CB	SER A		-3.368	34.908	63.278	1.00 26.35
	ATOM	58	OG	SER A		-4.090	35.105	62.093	1.00 29.02

	ATOM	59	N	LEU	Α	9	-6.	298	36.071	63.799	1.00	20.95
	ATOM	60	CA	LEU	A	9	-7.	720	35.750	63.869	1.00	20.81
	ATOM	61	С	LEU	A	9	-8.	188	35.158	62.554	1.00	24.77
_	MOTA	62	0	LEU		9		364	34.872	62.381		28.22
5	ATOM	63	CB	LEU		9		.573	36.991	64.170		20.29
	ATOM	64	CG	LEU		9		171	37.744	65.434		21.06
	ATOM	65		LEU		9		875	39.088	65.438		22.40
	ATOM	66		LEU		9		576	36.926	66.656		15.77
10	ATOM	67	N	ALA		10		240	35.040	61.630		22.60
10	ATOM	68 60	CA	ALA		10		461	34.528	60.294		17.85
	ATOM	69 70	C	ALA		10		633 281	33.039	60.254 61.178		23.94
	MOTA MOTA	70 71	O CB	ALA		10		_	32.298	59.397		15.48
	ATOM	72	N	ALA SER		10 11		291 170	34.891 32.590	59.129		25.50
15	ATOM	73	CA	SER		11		306	31.156	58.921		27.59
13	MOTA	74	C	SER		11		887	30.575	58.992		25.13
	ATOM	75	Õ	SER		11		938	31.112	58.437		26.43
	ATOM	76	СВ	SER		11		917	30.833	57.544		29.01
	ATOM	77	OG	SER		îî	-10.		31.338	57.445		28.50
20	ATOM	78	N	PRO		12		740	29.460	59.662		23.36
	ATOM	79	CA	PRO		12		445	28.827	59.798		20.96
	MOTA	80	Č.	PRO		12		949	28.121	58.533		34.02
	ATOM	81	ō	PRO		12		743	27.764	57.646		34.95
	ATOM	82	CB	PRO		12		590	27.834	60.952		22.26
25	ATOM	83	CG	PRO		12		080	27.652	61.201		29.49
	ATOM	84	CD	PRO		12		769	28.845	60.542		25.95
	MOTA	85	N	ALA	A	13	-3.	615	27.927	58.479	1.00	29.46
	ATOM	86	CA	ALA	A	13	-2.	922	27.276	57.385	1.00	25.81
	MOTA	87	С	ALA	A	13	~3.	531	25.912	57.109	1.00	27.87
30	ATOM	88	0	ALA	A.	13		320	25.321	56.072	1.00	30.10
	MOTA	89	CB	ALA	A	13	-1.	458	27.115	57.746	1.00	25.60
	ATOM	90	N	SER		14		288	25.389	58.038		20.61
	MOTA	91	CA	SER		14		876	24.090	57.814		24.37
25	MOTA	92	С	SER		14		230	24.183	57.108		32.80
35	ATOM	93	0	SER		14		831	23.183	56.733		35.15
	ATOM	94	CB	SER		14		031	23.366	59.137		29.06
	MOTA	95	OG	SER		14		775	24.180	60.037		31.14
	MOTA	96 97	N	VAL		15		721	25.392	56.944		24.99
40	ATOM ATOM	98	CA C	VAL		15 15		984	25.582 26.148	56.278		25.26
40	ATOM	99	0	VAL		15		774 348	25.688	54.865 53.886		27.71 27.54
	MOTA	100	СВ	VAL		15		876	26.466	57.127		29.72
	MOTA	101		VAL		15		999	27.045	56.271		30.81
	ATOM	102		VAL		15		411	25.656	58.298		27.89
45	ATOM	103	N	CYS		16		921	27.144	54.764		20.14
	ATOM	104	CA	CYS		16		594		53.503		24.17
	ATOM	105	C	CYS		16		265	28.490	53.629		26.96
	ATOM	106	0	CYS		16		834	28.793	54.744		28.25
	ATOM	107	CB	CYS		16		703	28.694	52.944		28.08
50	ATOM	108	SG	CYS		16		881	30.231	53.880		34.58
	ATOM	109	N	ARG	Α	17	-4.	622	28.749	52.496	1.00	20.39
	ATOM	110	CA	ARG	Α	17	-3.	344	29.409	52.520	1.00	22.15
	MOTA	111	С	ARG	Α	17	-3.	186	30.347	51.365	1.00	26.96
	ATOM	112	0	ARG	A	17	-3.	415	30.002	50.202	1.00	23.44
55	MOTA	113	CB	ARG	Α	17	-2.	147	28.451	52.443	1.00	26.39
	MOTA	114	CG	ARG		17	-2.	231	27.181	53,264	1.00	24.30
	ATOM	115	CD	ARG		17		416	26.086	52.599		28.56
	ATOM	116	NE	ARG		17		.772	25.134	53.510		51.45
60	ATOM	117	CZ	ARG		17		. 392	24.225	54.263		69.75
60	ATOM	118		ARG		17		693	24.086	54.287		72.82
	ATOM	119		ARG		17		694	23.418	55.032		48.88
	ATOM	120	N	THR		18		.723	31.532	51.700		21.89
	ATOM	121	CA	THR		18		. 478	32.539	50.713		20.46
	ATOM	122	С	THR	A	18	-1.	200	32.197	50.007	1.00	27.00

	MOTA	123	0	THR	Α	18	-0	207	31.923	50.662	1.00 26.28
	ATOM	124	CB	THR	A	18	-2	370	33.949	51.337	1.00 21.64
	MOTA	125	OG1	THR	A	18	-3.	539	34.262	52.076	1.00 25.03
	ATOM	126	CG2	THR	Α	18	-2	164	34.944	50.211	1.00 21.73
5	MOTA	127	N	LYS	A	19	-1.	235	32.203	48.677	1.00 22.54
	ATOM	128	CA	LYS		19	-0	091	31.871	47.864	1.00 21.16
	ATOM	129	C	LYS		19		538	33.063	47.238	1.00 23.51
	ATOM	130	ō	LYS		19		732	33.098	46.968	1.00 23.00
	ATOM	131	СВ	LYS		19		557	30.976	46.740	1.00 24.60
10	ATOM	132	CG	LYS		19		311	29.775	47.257	1.00 34.24
	ATOM	133	CD	LYS		19		944	29.419	48.688	1.00 65.32
	ATOM	134	CE	LYS		19		230	28.442	48.793	1.00 05.32
	ATOM	135		LYS		19				49.864	1.00 75.40
	ATOM	136	NZ					.183 .280	28.796		
15			N	HIS.		20			34.053	46.967	1.00 22.30
13	ATOM	137	CA	HIS		20		201	35.250	46.309	1.00 20.94
	ATOM	138	С	HIS		20		588	36.484	46.673	1.00 23.90
	ATOM	139	0	HIS .		20		779	36.414	47.022	1.00 23.31
	ATOM	140	CB	HIS.		20		054	35.095	44.801	1.00 19.15
••	ATOM	141	CG	HIS.		20	0.	888	36.085	44.129	1.00 20.96
20	MOTA	142		HIS .		20	2.	258	36.003	44.163	1.00 22.60
	ATOM	143	CD2	HIS .	А	20	0.	538	37.198	43.437	1.00 24.10
	ATOM	144	CE1	HIS .	Α	20	2.	725	37.040	43.496	1.00 23.71
	ATOM	145	NE2	HIS .	Α	20	1.	708	37.784	43.025	1.00 24.51
	ATOM	146	N	LEU		21		105	37.600	46.594	1.00 26.18
25	ATOM	147	CA	LEU .		21		484	38.893	46.871	1.00 27.24
	MOTA	148	С	LEU		21		104	39.856	45.805	1.00 27.01
	ATOM	149	ō	LEU .		21		076	40.014	45.522	1.00 27.97
	ATOM	150	СВ	LEU .		21		064	39.501	48.215	1.00 28.80
	ATOM	151	CG	LEU		21		335	41.006	48.296	1.00 34.13
30	ATOM	152		LEU .		21		834	41.309	48.440	1.00 36.26
	ATOM	153		LEU .		21		393	41.578	49.504	1.00 36.24
	ATOM	154	N	HIS .		22		110	40.475	45.203	1.00 28.25
	ATOM	155	CA	HIS .		22		852	41.482	44.186	1.00 30.03
	ATOM	156	C.	HIS.		22		272	42.800	44.795	1.00 30.05
35	ATOM	157	õ	HIS		22		435	42.993	45.127	1.00 30.57
	ATOM	158	СВ	HIS		22		560	41.291	42.844	1.00 30.57
	ATOM	159	CG	HIS .		22		060	42.347		
	ATOM	160		HIS .		22		913		41.913	1.00 34.36
		161							43.134	41.187	1.00 37.39
40	ATOM			HIS.		22		208	42.734	41.635	1.00 37.45
שד	ATOM	162		HIS.		22		155	43.968	40.481	1.00 38.02
	ATOM	163		HIS.		22		132	43.757	40.730	1.00 37.95
	ATOM	164	N	LEU .		23		315	43.668	45.000	1.00 31.07
	ATOM	165	CA	LEU .		23		.593	44.939	45.637	1.00 31.63
4.5	ATOM	166	С	LEU .		23		469	46.144	44.705	1.00 32.72
45	ATOM	167	0	LEU .		23		563	46.431	44.093	1.00 34.74
	MOTA	168	CB	LEU .		23		299	45.093	46.894	1.00 31.20
	ATOM	169	CG	LEU ,		23		320	45.795	48.126	1.00 34.26
	MOTA	170	CD1	LEU .	A	23	0.	543	46.966	48.510	1.00 32.64
	MOTA	171	CD2	LEU .	A	23	-1.	759	46.263	47.957	1.00 34.32
50	MOTA	172	N	ARG .	A	24	-1.	576	46.840	44.623	1.00 28.33
	ATOM	173	CA	ARG .	Α	24	-1.	681	48.040	43.837	1.00 30.28
	ATOM	174	С	ARG .	Α	24	-2	162	49.119	44.794	1.00 35.16
	ATOM	175	0	ARG .	Α	24		251	49.005	45.349	1.00 35.74
	ATOM	176	CB	ARG .		24		651	47.860	42.689	1.00 32.69
55	ATOM	177	CG	ARG .		24		962	47.363	41.423	1.00 55.58
	ATOM	178	CD	ARG .		24		732	47.698	40.144	1.00 67.44
	ATOM	179	NE	ARG		24		993	46.971	40.030	1.00 64.57
	MOTA	180	CZ	ARG		24		150	47.440	40.030	
											1.00 97.41
60	ATOM ATOM	181		ARG .		24		246	48.624	41.108	1.00 81.55
00		182		ARG .		24		249	46.713	40.344	1.00100.00
	MOTA	183	N	CYS .		25		320	50.126	45.045	1.00 36.40
	ATOM	184	CA	CYS .		25		696	51.181	45.998	1.00 36.70
	MOTA	185	C	CYS		25		996	52.522	45.815	1.00 34.57
	MOTA	186	0	CYS	A	25	0.	030	52.676	45.100	1.00 30.46

	ATOM	187	СВ	CYS A	25	~1.599	50.732	47.481	1.00 37.45
	ATOM	188	SG	CYS A	25	0.119	50.641	48.047	1.00 41.07
	ATOM	189	N	SER A	26	-1.606	53.493	46.507	1.00 32.19
	ATOM	190	CA	SER A	26	-1.098	54.841	46.486	1.00 32.91
5	ATOM	191	С	SER A	26	-0.861	55.372	47.877	1.00 28.73
	ATOM	192	0	SER A	26	-1.638	55.107	48.802	1.00 24.93
	ATOM	193	СВ	SER A	26	-1.884	55.825	45.626	1.00 41.21
	ATOM	194	OG	SER A	26	-0.987	56.748	45.012	1.00 55.61
	ATOM	195	N	VAL A	27	0.258	56.092	47.964	1.00 28.06
10	ATOM	196	CA	VAL A	27	0.719	56.718	49.172	1.00 29.85
	ATOM	197	С	VAL A	27	0.330	58.199	49.211	1.00 33.50
	ATOM	198	0	VAL A	27	0.868	59.024	48.443	1.00 31.85
	ATOM	199	СВ	VAL A	27	2.217	56.509	49.370	1.00 34.37
	ATOM	200	CG1	VAL A	27	2.605	57.003	50.774	1.00 35.81
15	MOTA	201	CG2	VAL A	27	2.481	55.004	49.263	1.00 33.03
	ATOM	202	N	ASP A	28	-0.626	58.489	50.106	1.00 31.46
	MOTA	203	CA	ASP A	28	-1.137	59.841	50.327	1.00 32.29
	ATOM	204	С	ASP A	28	-0.700	60.403	51.687	1.00 27.74
	ATOM	205	0	ASP A	28	-1.254	60.057	52.728	1.00 25.85
20	ATOM	206	CB	ASP A	28	-2.663	59.943	50.144	1.00 35.45
	MOTA	207	CG	ASP A	28	-3.158	61.380	50.016	1.00 43.54
	ATOM	208	OD1	ASP A	28	-2.559	62.348	50.463	1.00 39.89
	ATOM	209	OD2	ASP A	28	-4.290	61.467	49.353	1.00 50.90
	ATOM	210	N	PHE A	29	0.311	61.251	51.614	1.00 29.04
25	MOTA	211	CA	PHE A	29	0.913	61.918	52.741	1.00 32.69
	MOTA	212	С	PHE A	29	0.011	63.004	53.317	1.00 46.23
	MOTA	213	0	PHE A	29	0.021	63.341	54.511	1.00 49.95
	MOTA	214	CB	PHE A	29	2.199	62.568	52.288	1.00 34.84
20	MOTA	215	CG	PHE A	29	3.371	61.627	52.322	1.00 37.91
30	ATOM	216		PHE A	29	3.961	61.270	53.534	1.00 39.04
	ATOM	217		PHE A	29	3.893	61.111	51.136	1.00 39.45
	MOTA	218		PHE A	29	5.064	60.419	53.565	1.00 39.96
	ATOM	219		PHE A	29	4.992	60.254	51.153	1.00 43.33
25	ATOM	220	CZ	PHE A	29	5.573	59.908	52.373	1.00 39.81
35	MOTA	221	N	THR A	30	-0.788	63.569	52.445	1.00 43.44
	ATOM	222	CA	THR A	30	-1.695	64.590	52.870	1.00 40.68
	ATOM	223	C	THR A	30	-2.776	63.990	53.751	1.00 36.25
	ATOM	224	0	THR A	30	-3.160	64.575	54.741	1.00 37.59
40	ATOM	225	CB	THR A	30	-2.241	65.353	51.661	1.00 44.14
40	ATOM	226		THR A	30	-1.312	66.379	51.280	1.00 35.00
	MOTA MOTA	227 228	CG2 N	THR A ARG A	30	-3.634 -3.249	65.886	51.979 53.426	1.00 42.00
	ATOM	229	CA	ARG A	31	-4.258	62.803		1.00 23.27 1.00 22.52
	ATOM	230	CA	ARG A	31 31	-3.670	62.179 61.084	54.263 55.187	1.00 22.32
45	ATOM	231	0	ARG A		-4.388			1.00 26.35
15	MOTA	232	СВ	ARG A	31	-5.360	61.545	53.423	1.00 20.30
	ATOM	233	CG	ARG A	31	-6.236	62.579	52.723	1.00 52.89
	ATOM	234	CD	ARG A	31	-6.324	62.368	51.215	1.00 63.14
	ATOM	235	NE	ARG A	31	-5.912	63.537	50.434	1.00 56.84
50	ATOM	236	CZ	ARG A	31	-6.777	64.353	49.868	1.00 58.33
	ATOM	237		ARG A	31	-8.084	64.154	49.996	1.00 45.96
	MOTA	238		ARG A	31	-6.335	65.393	49.166	1.00 57.96
	ATOM	239	N	ARG A	32	-2.353	60.838	55.018	1.00 28.39
	ATOM	240	CA	ARG A	32	-1.587	59.832	55.754	1.00 28.42
55	ATOM	241	C	ARG A	32	-2.248	58.498	55.548	1.00 31.13
	ATOM	242	ō	ARG A	32	-2.553	57.754	56.484	1.00 26.52
	ATOM	243	CB	ARG A	32	-1.353	60.163	57.233	1.00 22.96
	ATOM	244	CG	ARG A	32	-1.083	61.654	57.442	1.00 22.30
	ATOM	245	CD	ARG A	32	0.247	62.022	58.108	1.00 65.92
60	MOTA	246	NE	ARG A	32	0.307	61.670	59.532	1.00 62.95
•	ATOM	247	CZ	ARG A	32	1.244	62.060	60.403	1.00 56.24
	ATOM	248		ARG A	32	2.259	62.862	60.090	1.00 38.45
	ATOM	249		ARG A	32	1.150	61.628	61.644	1.00 38.26
	ATOM	250	N	THR A	33	-2.503	58.222	54.278	1.00 30.15
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	ATOM	251	CA	THR A	33	-3.148	56,969	53.940	1.00 30.69
	ATOM	252	С	THR A	33	-2.460	56.247	52.816	1.00 30.70
	ATOM	253	0	THR A	33	-1.765	56.842	51.978	1.00 27.23
	ATOM	254	CB	THR A	33	-4.603	57.146	53.467	1.00 39.23
5	ATOM	255	OG1	THR A	33	-4.637	58.100	52.420	1.00 37.97
	ATOM	256	CG2	THR A	33	-5.567	57.481	54.598	1.00 34.16
	MOTA	257	N	LEU A	34	-2.719	54.950	52.842	1.00 30.87
	ATOM	258	CA	LEU A	34	-2.279	54.012	51.842	1.00 32.01
	MOTA	259	С	LEU A	34	-3.598	53.483	51.332	1.00 26.54
10	ATOM	260	0	LEU A	34	-4.426	53.031	52.106	1.00 25.08
	ATOM	261	СВ	LEU A	34	-1.518	52.805	52.428	1.00 35.05
	ATOM	262	CG	LEU A	34	-0.007	52.880	52.357	1.00 42.66
	ATOM	263	CD1	LEU A	34	0.537	51.446	52.425	1.00 41.75
	ATOM	264	CD2	LEU A	34	0.434	53.610	51.081	1.00 49.07
15	ATOM	265	N	THR A	35	-3.828	53.576	50.050	1.00 27.44
	ATOM	266	CA	THR A	35	-5.088	53.081	49.552	1.00 29.43
	ATOM	267	С	THR A	35	-4.825	52.257	48.316	1.00 33.69
	ATOM	268	0	THR A	35	-3.896	52.559	47.532	1.00 31.06
	ATOM	269	CB	THR A	35	-6.004	54.248	49.195	1.00 49.67
20	ATOM	270	OG1	THR A	35	-5.775	55.297	50.111	1.00 56.12
	ATOM	271	CG2	THR A	35	-7.442	53.781	49.282	1.00 53.32
	ATOM	272	N	GLY A	36	-5.638	51.220	48.172	1.00 31.25
	ATOM	273	CA	GLY A	36	-5.509	50.336	47.024	1.00 30.78
	ATOM	274	С	GLY A	36	-6.314	49.072	47.144	1.00 27.36
25	ATOM	275	0	GLY A	36	-7.358	48.969	47.773	1.00 26.53
	ATOM	276	N	THR A	37	-5.809	48.080	46.504	1.00 27.32
	ATOM	277	CA	THR A	37	-6.478	46.793	46.579	1.00 29.08
	ATOM	278	С	THR A	37	-5.460	45.717	46.846	1.00 29.62
	ATOM	279	0	THR A	37	-4.321	45.787	46.370	1.00 27.85
30	MOTA	280	CB	THR A	37	-7.268	46.425	45.311	1.00 35.94
	MOTA	281	OG1	THR A	37	-6.546	46.790	44.142	1.00 33.45
	ATOM	282	CG2	THR A	37	-8.601	47.144	45.350	1.00 41.23
	ATOM	283	N	ALA A	38	-5.867	44.738	47.609	1.00 28.10
	ATOM	284	CA	ALA A	38	-4.934	43.674	47.856	1.00 27.55
35	MOTA	285	С	ALA A	38	-5.482	42.447	47.137	1.00 30.70
	MOTA	286	0	ALA A	38	-6.536	41.941	47.510	1.00 31.51
	MOTA	287	CB	ALA A	38	-4.803	43.425	49.339	1.00 26.00
	MOTA	288	N	ALA A	39	-4.798	41.981	46.090	1.00 27.63
	ATOM	289	CA	ALA A	39	-5.280	40.761	45.394	1.00 29.40
40	MOTA	290	С	ALA A	39	-4.563	39.541	45.966	1.00 29.05
	ATOM	291	0	ALA A	39	-3.371	39.333	45.734	1.00 28.04
	MOTA	292	CB	ALA A	39	-5.024	40.787	43.888	1.00 30.14
	ATOM	293	N	LEU A	40	-5.327	38.780	46.713	1.00 26.03
	ATOM	294	CA	LEU A	40	-4.899	37.591	47.392	1.00 26.04
45	MOTA	295	С	LEU A	40	-5.304			1.00 30.62
	MOTA	296	0	LEU A	40	-6.499	36.038	46.394	1.00 28.36
	MOTA	297	CB	LEU A	40	-5.596	37.499	48.779	1.00 24.92
	ATOM	298	CG	LEU A	40	-5.312	38.663	49.725	1.00 27.54
••	MOTA	299		LEU A	40	-5.870	38.272	51.074	1.00 29.18
50	MOTA	300	CD2	LEU A	40	-3.817	38.865	49.857	1.00 26.20
	MOTA	301	N	THR A	41	-4.302	35.498	46.326	1.00 23.66
	MOTA	302	CA	THR A	41	-4.566	34.232	45.700	1.00 23.84
	MOTA	303	С	THR A	41	-4.509	33.259	46.841	1.00 28.24
	ATOM	304	0	THR A	41	-3.448	33.076	47.421	1.00 28.49
55	atom	305	CB	THR A	41	-3.554	33.854	44.613	1.00 38.89
	ATOM	306		THR A	41	-3.594	34.801	43.555	1.00 32.11
	ATOM	307		THR A	41	-3.856	32.426	44.113	1.00 33.97
	ATOM	308	N	VAL A	42	-5.674	32.704	47.169	1.00 25.76
<b>CO</b>	ATOM	309	CA	VAL A	42	-5.843	31.782	48.261	1.00 26.45
60	ATOM	310	С	VAL A	42	-6.068	30.356	47.804	1.00 34.04
	ATOM	311	0	VAL A	42	-6.730	30.118	46.795	1.00 33.15
	ATOM	312	CB	VAL A	42	-7.024	32.223	49.113	1.00 29.66
	ATOM	313		VAL A	42	-7.189	31.274	50.295	1.00 30.14
	ATOM	314	CG2	VAL A	42	-6.805	33.657	49.611	1.00 28.98

51.839

1.00 58.37

	MOTA	379	NE	ARG I			-20.835	25.461	50.643	1.00 80	
	ATOM	380	CZ	ARG A			-21.951	24.727	50.592	1.00100	).00
	ATOM	381		ARG I			-22.750	24.575	51.652	1.00100	).00
_	MOTA	382	NH2	ARG I	A 50	)	-22.272	24.127	49.446	1.00 69	5.83
5	MOTA	383	N	SER Z	A 5:	Ł	-16.102	30.024	52.945	1.00 43	3.64
	MOTA	384	CA	SER A	A 5:	L	-15.714	31.334	53.418	1.00 41	1.14
	ATOM	385	С	SER A	A 5:	Į.	-14.454	31.283	54.259	1.00 44	1.29
	ATOM	386	0	SER A	A 5:	l	-14.253	30.319	55.016	1.00 46	5.38
	MOTA	387	CB	SER I	A 5	l	-16.821	31.863	54.321	1.00 45	5.40
10	ATOM	388	OG	SER I	A 5	Į	-16.862	31.143	55.556	1.00 46	5.27
	ATOM	389	N	LEU Z	A 52	2	-13.623	32.330	54.156	1.00 36	5.51
	ATOM	390	CA	LEU A	A 52	2	-12.418	32.411	54.964	1.00 36	5.39
	ATOM	391	С	LEU I			-12.369	33.667	55.852	1.00 42	
	MOTA	392	0	LEU I			~13.113	34.644	55.647	1.00 40	
15	ATOM	393	СВ	LEU Z			-11.103	32.143	54.203	1.00 35	
	ATOM	394	CG	LEU A			-10.729	33.115	53.095	1.00 39	
	ATOM	395		LEU 2			-11.745	33.042	51.994	1.00 43	
	ATOM	396		LEU			-10.624	34.538	53.605	1.00 38	
	ATOM	397	N	VAL A			-11.491	33.659	56.859	1.00 37	
20	ATOM	398	CA	VAL I			-11.431	34.834	57.737		
20	ATOM	399	C	VAL /					57.550	1.00 34	
							-9.933	35.384	57.530	1.00 3	
	ATOM	400	O	VAL 2			-8.975	34.606		1.00 28	
	ATOM	401	CB	VAL A			-11.601	34.597	59.226	1.00 3	
25	ATOM	402		VAL A			-11.580	35.929	59.989	1.00 37	
23	ATOM	403		VAL A			-12.946	33.922	59.419	1.00 3	
	ATOM	404	N	LEU A			-9.829	36.705	57.418	1.00 23	
	MOTA	405	CA	LEU A			-8.558	37.365	57.270	1.00 22	
	ATOM	406	С	LEU A			-8.395	38.285	58.470	1.00 29	
20	ATOM	407	0	LEU /			-9.388	38.613	59.138	1.00 25	
30	ATOM	408	CB	LEU A			-8.515	38.242	56.019	1.00 23	
	MOTA	409	CG	LEU A			-8.458	37.469	54.700	1.00 32	
	MOTA	410		LEU A			-8.345	38.475	53.541	1.00 3	L.66
	ATOM	411		LEU A			-7.271	36.505	54.684	1.00 24	
25	ATOM	412	N	ASP A			-7.145	38.698	58.732	1.00 28	
35	MOTA	413	CA	ASP A			-6.830	39.616	59.831	1.00 24	4.54
	ATOM	414	С	ASP 2			-6.845	41.043	59.289	1.00 22	2.50
	ATOM	415	0	ASP A			-6.460	41.312	58.173	1.00 2	
	ATOM	416	CB	ASP A			-5.446	39.344	60.500	1.00 2	5.99
40	MOTA	417	CG	ASP A			-5.298	38.132	61.418	1.00 23	
40	ATOM	418	OD1	ASP A			-5.887	37.985	62.470	1.00 2	7.99
	ATOM	419	OD2	ASP A	A 5	<b>.</b>	-4.408	37.248	60.991	1.00 2	4.58
	ATOM	420	N	THR A	A 56	5	~7.309	41.977	60.109	1.00 2	1.37
	ATOM	421	CA	THR A	A 56	5	-7.346	43.373	59.748	1.00 22	2.34
	MOTA	422	С	THR A	A 56	5	-7.167	44.196	61.019	1.00 2	5.71
45	ATOM	423	0	THR A	A 56	5	-7.573	43.726	62.088	1.00 20	6.22
	ATOM	424	CB	THR A	A 56	5	~8.727	43.717	59.133	1.00 3	4.75
	ATOM	425	OG1	THR Z	A 56	5	-9.668	43.936	60.183	1.00 3	5.02
	ATOM	426	CG2	THR A	A 5	5	-9.210	42.578	58.241	1.00 40	0.12
	ATOM	427	N	LYS Z	A 5	7	-6.598	45.405	60.918	1.00 20	0.41
50	ATOM	428	CA	LYS A	A 5	7	-6.478	46.239	62.114	1.00 19	
	ATOM	429	С	LYS A			-6.656	47.686	61.717	1.00 2	
	ATOM	430	0	LYS 2			-5.851	48.222	60.995	1.00 1	
	ATOM	431	CB	LYS			-5.182	45.983	62.827	1.00 2	
	ATOM	432	CG	LYS 2			-5.137	46.424	64.271	1.00 2	
55	ATOM	433	CD	LYS			-3.713	46.855	64.626	1.00 4	
	ATOM	434	CE	LYS			-3.331	46.750	66.099	1.00 6	
	ATOM	435	NZ	LYS			-1.996	47.313	66.396	1.00 5	
	ATOM	436	N	ASP A			-7.739	48.322		1.00 2	
		437							62.162		
60	ATOM		CA	ASP A			-7.952	49.707	61.772	1.00 2	
00	ATOM	438	C	ASP ASP			-7.930	49.875	60.266	1.00 2	
	ATOM	439	O	ASP I			-7.376	50.808	59.668	1.00 2	
	ATOM	440	CB	ASP I			-6.971	50.657	62.459	1.00 2	
	ATOM	441	CG	ASP A			-7.104	50.494	63.928	1.00 3	
	ATOM	442	OD1	ASP A	A 58	3	-8.187	50.358	64.474	1.00 3	8.70

	ATOM	443	OD2	ASP A	58	-5.944	50.459	64.535	1.00 37.78
	ATOM	444	N	LEU A	59	-8.530	48.936	59.611	1.00 26.57
	MOTA	445	CA	LEU A	59	-8.545	49.049	58.177	1.00 26.97
5	ATOM	446	C	LEU A	59	-9.946	49.473	57.707	1.00 30.09
3	MOTA	447	0	LEU A	59	-10.971	49.074	58.245	1.00 28.07
	MOTA	448	CB	LEU A	59	-8.132	47.698	57.479	1.00 26.65
	ATOM	449	CG	LEU A	59	-6.639	47.356	57.443	1.00 24.34
	ATOM	450	CDI	LEU A	59	-6.445	46.049	56.687	1.00 25.03
	ATOM	451		LEU A	59	-5.864	48.443	56.722	1.00 21.60
10	ATOM	452							
10			N	THR A	60	-9.982	50.278	56.673	1.00 29.73
	ATOM	453	CA	THR A	60	-11.244	50.685	56.091	1.00 30.53
	ATOM	454	С	THR A	60	-11.433	49.876	54.791	1.00 34.07
	ATOM	455	0	THR A	60	-10.634	49.978	53.813	1.00 29.18
	ATOM	456	CB	THR A	60	-11.282	52.198	55.881	1.00 38.77
15	ATOM	457	OG1	THR A	60	-11.898	52.759	57.020	1.00 55.62
	ATOM	458	CG2		60	-12.086	52.528	54.635	1.00 42.40
	ATOM	459	N	ILE A	61	-12.465	49.042	54.808	1.00 30.99
	ATOM	460	CA	ILE A	61	-12.758	48.181	53.667	1.00 33.20
	MOTA	461	С	ILE A	61	-13.821	48.708	52.741	1.00 38.63
20	MOTA	462	0	ILE A	61	-14.987	48.694	53.102	1.00 34.56
	MOTA	463	CB	ILE A	61	-13.230	46.809	54.087	1.00 37.17
	ATOM	464		ILE A	61	-12.407	46.229	55.252	1.00 37.33
	ATOM	465		ILE A					
					61	-13.229	45.905	52.850	1.00 39.90
25	ATOM	466		ILE, A	61	-10.929	46.003	54.937	1.00 41.79
25	MOTA	467	N	GLU A	62	-13.407	49.117	51.548	1.00 42.13
	MOTA	468	CA	GLU A	62	-14.330	49.624	50.543	1.00 45.12
	ATOM	469	С	GLU A	62	-15.208	48.498	49.976	1.00 48.64
	ATOM	470	0	GLU A	62	-16.442	48.537	49.984	1.00 49.46
	ATOM	471	СВ	GLU A	62	-13.550	50.305	49.397	1.00 47.88
30	ATOM	472	CG	GLU A	62	-14.390	51.345	48 620	1.00 73.90
50									
	ATOM	473	CD	GLU A	62	-15.062	50.839	47.363	1.00100.00
	ATOM	474		GLU A	62	-16.062	50.129	47.371	1.00100.00
	ATOM	475	OE2	GLU A	62	-14.492	51.296	46.267	1.00100.00
	ATOM	476	N	LYS A	63	-14.551	47.459	49.483	1.00 40.80
35	ATOM	477	CA	LYS A	63	-15.283	46.342	48.931	1.00 36.23
	ATOM	478	С	LYS A	63	-14.377	45.153	48.678	1.00 34.27
	ATOM	479	0	LYS A	63	-13.167	45.306	48.512	1.00 29.28
	ATOM	480	СB	LYS A	63	-15.891	46.760	47.601	
									1.00 32.16
40	MOTA	481	CG	LYS A	63	-14.816	47.067	46.573	1.00 22.38
40	MOTA	482	CD	LYS A	63	-15.373	47.148	45.162	1.00 32.02
	ATOM	483	CE	LYS A	63	-14.778	48.257	44.308	1.00 33.99
	ATOM	484	ΝZ	LYS A	63	-13.723	47.814	43.365	1.00 52.00
	ATOM	485	N	VAL A	64	-15.001	43.985	48.614	1.00 36.16
	MOTA	486	CA	VAL A	64	-14.292	42.751	48.306	1.00 39.33
45	ATOM	487	С	VAL A	64	-14.792	42.157	46.993	1.00 43.15
	ATOM	488	ō	VAL A	64	-15.971	41.822	46.859	1.00 38.90
	ATOM	489	CB	VAL A	64	-14.401	41.692	49.370	1.00 42.66
	ATOM	490		VAL A	64	-13.465	40.566	48.928	1.00 42.11
	ATOM	491	CG2	VAL A	64	-14.028	42.276	50.730	1.00 40.96
50	ATOM	492	N	VAL A	65	-13.892	42.023	46.036	1.00 40.44
	ATOM	493	CA	VAL A	65	-14.287	41.505	44.739	1.00 37.94
	ATOM	494	С	VAL A	65	-13.708	40.162	44.350	1.00 35.48
	ATOM	495	ō	VAL A	65	-12.511	39.915	44.474	1.00 33.40
	ATOM	496	CB	VAL A					
55					65	-14.047	42.540	43.647	1.00 39.44
22	ATOM	497		VAL A	65	-14.238	41.899	42.287	1.00 38.78
	MOTA	498		VAL A	65	-15.024	43.692	43.844	1.00 38.69
	ATOM	499	N	ILE A	66	-14.599	39.316	43.847	1.00 32.12
	MOTA	500	CA	ILE A	66	-14.223	38.010	43.372	1.00 31.54
	ATOM	501	C	ILE A	66	-14.825	37.784	41.993	1.00 37.42
60	ATOM	502	ō	ILE A	66	-16.033	37.896	41.794	1.00 37.42
	ATOM	503	СВ	ILE A					
					66	-14.602	36.884	44.313	1.00 32.82
	MOTA	504		ILE A	66	-13.945	37.071	45.664	1.00 30.69
	MOTA	505		ILE A	66	-14.117	35.581	43.703	1.00 32.94
	ATOM	506	CD1	ILE A	66	-14.478	36.125	46.731	1.00 25.31

	MOTA	507	N	ASN A	67	-13.968	37.498	41.027	1.00 38.89
	MOTA	508	CA	ASN A	67	-14.426	37.278	39.668	1.00 39.33
	ATOM	509	С	ASN A	67	-15.373	38.366	39.223	1.00 42.51
_	ATOM	510	0	ASN A	67	-16.525	38.092	38.906	1.00 39.37
5	MOTA	511	CB	ASN A	67	-15.095	35.904	39.501	1.00 35.20
	MOTA	512	CG	ASN A	67	-14.141	34.765	39.862	1.00 61.24
	ATOM	513		ASN A	67	-12.900	34.842	39.669	1.00 47.44
	MOTA	514	ND2	ASN A	67	-14.717	33.706	40.421	1.00 42.22
10	ATOM	515	N	GLY A	68	-14.848	39.590	39.237	1.00 39.48
10	ATOM	516	CA	GLY A	68	-15.527	40.809	38.826	1.00 37.68
	ATOM	517	С	GLY A	68	-16.763	41.167	39.612	1.00 39.81
	ATOM	518	0	GLY A	68	-17.380	42.197	39.398	1.00 43.86
	ATOM	519	N	GLN A	69	-17.173	40.333	40.513	1.00 33.09
1.5	MOTA	520	CA	GLN A	69	-18.351	40.732	41.230	1.00 34.40
15	ATOM	521	С	GLN A	69	-17.958	41.090	42.626	1.00 47.27
	ATOM	522	0	GLN A	69	-16.841	40.790	43.059	1.00 49.22
	ATOM	523	СВ	GLN A	69	-19.416	39.624	41.285	1.00 36.28
	ATOM	524	CG	GLN A	69	-19.908	39.174	39.893	1.00 42.32
20	MOTA	525	CD	GLN A	69	-20.467	40.321	39.111	1.00 54.27
20	ATOM	526		GLN A	69	-19.968	40.635	38.025	1.00 50.67
	ATOM	527	NE2		69	-21.462	40.989	39.696	1.00 59.09
	ATOM	528	N	GLU A	70	-18.898	41.715	43.318	1.00 45.54
	ATOM	529	CA	GLU A	70	-18.697	42.105	44.682	1.00 43.70
25	ATOM	530	С	GLU A	70	-19.236	40.986	45.548	1.00 50.02
23	MOTA	531	0	GLU A	70	-20.200	40.332	45.162	1.00 55.78
	MOTA	532 533	CB	GLU A	70	-19.351	43.459	44.985	1.00 43.37
	ATOM ATOM	534	CG CD	GLU A GLU A	70 70	-18.528	44.659	44.476	1.00 45.21
	ATOM	535		GLU A	70	-19.093 -19.937	45.975	44.964	1.00 80.18 1.00 51.66
30	ATOM	536		GLU A	70	-18.594	46.064 47.005	45.861 44.319	1.00 51.66
	ATOM	537	N	VAL A	71	-18.611	40.735	46.695	1.00 79.03
	ATOM	538	CA	VAL A	71	-19.067	39.666	47.551	1.00 37.03
	ATOM	539	C	VAL A	71	-19.420	40.129	48.963	1.00 35.14
	ATOM	540	0	VAL A	71	-19.165	41.257	49.380	1.00 36.32
35	MOTA	541	CB	VAL A	71	-18.147	38.422	47.497	1.00 33.37
	ATOM	542	CG1	VAL A	71	-17.772	38.119	46.050	1.00 31.13
	ATOM	543	CG2	VAL A	71	-16.866	38.594	48.326	1.00 31.47
	ATOM	544	N	LYS A	72	-20.016	39.247	49.696	1.00 31.08
	ATOM	545	CA	LYS A	72	-20.385	39.549	51.037	1.00 34.55
40	ATOM	546	С	LYS A	72	-19.155	39.360	51.922	1.00 46.45
	ATOM	547	0	LYS A	72	-18.344	38.455	51.678	1.00 44.93
	ATOM	548	CB	LYS A	72	-21.484	38.586	51.447	1.00 37.84
	ATOM	549	CG	LYS A	72	-22.553	39.153	52.362	1.00 60.35
45	ATOM	550	CD	LYS A	72	-22.630	38.370	53.660	1.00 78.18
45	ATOM	551	CE	LYS A	72	-21.389	38.589	54.500	1.00 92.99
	ATOM	552	NZ	LYS A	72	-20.860	39.935	54.295	1.00100.00
	ATOM	553	N	TYR A	73	-19.051	40.242	52.930	1.00 45.41
	ATOM	554	CA	TYR A	73	-18.006	40.276	53.941	1.00 45.13
50	ATOM	555	С	TYR A	73	-18.474	41.017	55.167	1.00 47.06
20	ATOM	556	0	TYR A	73	-19.231	41.979	55.089	1.00 45.05
	ATOM	557	CB	TYR A	73	-16.720	40.932	53.488	1.00 44.74
	ATOM	558 550	CG	TYR A	73	-16.753	42.438	53.504	1.00 47.77
	ATOM ATOM	559 560		TYR A TYR A	73 73	-16.507	43.169	54.674	1.00 50.00
55	ATOM	561		TYR A	73	-17.005 -16.519	43.133	52.306	1.00 49.34
	ATOM	562		TYR A	73		44.565	54.662	1.00 52.06
	ATOM	563	CZ	TYR A	73 73	-16.967 -16.684	44.529 45.235	52.284 53.452	1.00 50.56 1.00 60.67
	ATOM	564	OH	TYR A	73	-16.859	46.597	53.432	1.00 66.04
	ATOM	565	N	ALA A	74	-17.993	40.557	56.289	1.00 66.04
60	ATOM	566	CA	ALA A	74	-18.323	41.138	57.545	1.00 40.33
	ATOM	567	C	ALA A	74	-17.068	41.281	58.412	1.00 39.83
	ATOM	568	Ö	ALA A	74	-16.147	40.464	58.346	1.00 47.89
	ATOM	569	CB	ALA A	74	-19.346	40.262	58.237	1.00 39.87
	ATOM	570	N	LEU A	75	-17.055	42.339	59.227	1.00 33.87
					. •	_,,,,,,	.2.000		2.00 32177

		ATOM	571	CA	LEU A	75	-15.980	42.650	60.148	1.00 38.94
		MOTA	572	С	LEU A	75	-16.416	42.342	61.561	1.00 44.65
		ATOM	573	0	LEU A	75	-17.388	42.895	62.068	1.00 48.50
	_	MOTA	574	CB	LEU A	75	-15.667	44.141	60.115	1.00 37.30
	5	MOTA	575	CG	LEU A	75	-14.899	44.572	58.899	1.00 44.06
		ATOM	576		LEU A	75	-14.476	46.031	59.085	1.00 47.51
		MOTA	577	CD2	LEU A	75	-13.691	43.666	58.677	1.00 46.54
		MOTA	578	N	GLY A	76	-15.718	41.474	62.242	1.00 39.16
		ATOM	579	CA	GLY A	76	-16.145	41.228	63.597	1.00 36.77
	10	MOTA	580	С	GLY A	76	-15.652	42.360	64.461	1.00 31.43
		MOTA	581	0	GLY A	76	-14.997	43.290	63.969	1.00 26.07
		ATOM	582	N	GLU A	77	-15.973	42.281	65.736	1.00 32.78
		ATOM	583	CA	GLU A	77	-15.539	43.318	66.645	1.00 34.78
		ATOM	584	C	GLU A	77	-14.050	43.214	66.886	1.00 34.70
	15	ATOM	585	ŏ	GLU A	77	-13.431	42.176	66.641	1.00 34.85
		ATOM	586	СВ	GLU A	77	-16.337	43.338	67.966	1.00 37.18
		ATOM	587	CG	GLU A	, דר	-16.506	41.956		
		ATOM	588	CD	GLU A	77	-16.316		68.643	1.00 56.65
		ATOM	589		GLU A	77		41.990	70.151	1.00100.00
	20	ATOM	590				-16.789	42.859	70.877	1.00100.00
	20				GLU A	77	-15.603	40.975	70.597	1.00100.00
		ATOM	591	N	ARG A	78	-13.483	44.312	67.343	1.00 37.73
		ATOM	592	CA	ARG A	78	-12.068	44.336	67.624	1.00 37.11
		MOTA	593	С	ARG A	78	-11.709	43.545	68.889	1.00 39.61
	25	ATOM	594	0	ARG A	78	-12.422	43.549	69.906	1.00 36.40
	25	ATOM	595	CB	ARG A	78	-11.522	45.744	67.693	1.00 33.62
		MOTA	596	CG	ARG A	78	-9.991	45.807	67.699	1.00 34.93
		MOTA	597	CD	ARG A	78	-9.516	47.207	68.040	1.00 32.03
		ATOM	598	NE	ARG A	78	-8.083	47.397	68.058	1.00 33.71
	20	ATOM	599	CZ	ARG A	78	-7.459	48.239	67.241	1.00 53.03
	30	ATOM	600		ARG A	78	-8.114	48.941	66.314	1.00 39.56
		ATOM	601		ARG A	78	-6.139	48.361	67.337	1.00 53.05
		ATOM	602	N	GLN A	79	-10.576	42.842	68.795	1.00 33.34
		ATOM	603	CA	GLN A	79	-10.044	42.052	69.881	1.00 32.25
	25	ATOM	604	С	GLN A	79	-8.708	42.662	70.221	1.00 36.49
	35	ATOM	605	0	GLN A	79	-7.651	42.164	69.834	1.00 37.41
		ATOM	606	CB	GLN A	79	-9.906	40.580	69.472	1.00 31.80
		ATOM	607	CG	GLN A	79	-11.263	39.972	69.092	1.00 31.70
		MOTA	608	CD	GLN A	79	-11.143	38.511	68.713	1.00 62.24
	40	MOTA	609		GLN A	79	-10.234	37.819	69.182	1.00 64.13
	40	ATOM	610	NE2	GLN A	79	-12.046	38.033	67.862	1.00 56.77
		MOTA	611	N	SER A	80	-8.787	43.794	70.893	1.00 30.40
		MOTA	612	CA	SER A	80	-7.617	44.551	71.284	1.00 27.48
		MOTA	613	С	SER A	80	-6.535	44.592	70.257	1.00 29.91
		MOTA	614	0	SER A	80	-6.758	45.054	69.140	1.00 28.75
	45	MOTA	615	CB	SER A	80	-7.066	44.252	72.655	1.00 27.52
		ATOM	616	OG	SER A	80	-7.173	42.874	72.863	1.00 44.76
_		ATOM	617	N	TYR A	81	-5.350	44.133	70.671	1.00 27.38
•		MOTA	618	CA	TYR A	81	-4.162	44.180	69.820	1.00 25.29
		ATOM	619	С	TYR A	81	-4.196	43.286	68.604	1.00 23.60
	50	ATOM	620	0	TYR A	81	-3.389	43.435	67.710	1.00 26.12
:		MOTA	621	CB	TYR A	81	-2.861	43.992	70.632	1.00 23.78
		ATOM	622	CG	TYR A	81	-2.849	42.621	71.190	1.00 21.01
·		ATOM	623	CD1	TYR A	81	-3.374	42.361	72.450	1.00 20.45
:		ATOM	624	CD2	TYR A	81	-2.387	41.569	70.406	1.00 23.13
	55	ATOM	625		TYR A	81	-3.402	41.064	72.948	1.00 18.45
<u>:</u> `		ATOM	626		TYR A	81	-2.426	40.263	70.885	1.00 24.91
:		ATOM	627	CZ	TYR A	81	-2.929	40.017	72.162	1.00 26.97
- * * * .		ATOM	628	OH	TYR A	81	-2.960	38.731	72.102	1.00 25.97
٠٠		ATOM	629	N	LYS A	82	-5.125	42.370	68.568	
.***,	60	ATOM	630	CA	LYS A	82	-5.125 -5.225			1.00 19.77
••••		ATOM	631	CA	LYS A	82		41.448	67.433	1.00 19.65
• • • •		ATOM	632	0	LYS A		~5.948 ~5.931	42.036	66.232	1.00 26.75
		ATOM	633	CB		82	~5.821	41.545	65.107	1.00 26.09
					LYS A	82	~5.929 5.030	40.217	67.888	1.00 19.96
		ATOM	634	CG	LYS A	82	-5.039	39.427	68.808	1.00 39.72

						•			
	ATOM	635	CD	LYS A	82	-5.610	38.058	69.103	1.00 45.35
	ATOM	636	CE	LYS A	82	-5.868	37.809	70.577	1.00 52.66
	ATOM	637	NZ	LYS A	82	-6.016	36.375	70.879	1.00 51.38
	ATOM	638	N	GLY A	83	-6.698	43.114	66.482	1.00 25.62
5	ATOM	639	CA	GLY A	83	-7.465	43.786	65.441	1.00 24.64
_	MOTA	640	c	GLY A	83	-8.857	43.145	65.324	1.00 26.15
	ATOM	641	ō	GLY A	83	-9.348	42.515	66.255	1.00 24.12
	ATOM	642	N	SER A	84	-9.463	43.273	64.136	1.00 27.22
	ATOM	643	CA	SER A	84	-10.806	42.770	63.829	1.00 27.22
10	ATOM	644	C	SER A	84	-10.815	41.744	62.720	1.00 27.17
••	ATOM	645	Ö	SER A	84	-10.237	41.933	61.649	
	ATOM	646	СВ	SER A		-11.708			1.00 30.39
	MOTA	647	OG	SER A	84		43.929	63.377	1.00 31.94
					84	-11.719	44.976	64.344	1.00 42.05
15	ATOM	648	N	PRO A	85	-11.513	40.667	62.979	1.00 24.61
13	MOTA	649	CA	PRO A	85	-11.640	39.590	62.017	1.00 25.06
	ATOM	650	С	PRO A	85	-12.480	40.005	60.819	1.00 33.19
	ATOM	651	0	PRO A	85	-13.536	40.622	60.995	1.00 31.19
	ATOM	652	CB	PRO A	85	-12.404	38.469	62.736	1.00 24.61
20	ATOM	653	CG	PRO A	85	-12.959	39.049	64.014	1.00 30.62
20	MOTA	654	CD	PRO A	85	-12.314	40.423	64.199	1.00 26.23
	ATOM	655	N	MET A	86	-12.019	39.632	59.623	1.00 28.27
	ATOM	656	CA	MET A	86	-12.754	39.924	58.411	1.00 27.27
	ATOM	657	С	MET A	86	-13.227	38.650	57.699	1.00 32.93
26	ATOM	658	0	MET A	86	-12.438	37.997	57.038	1.00 27.77
25	ATOM	659	CB	MET A	86	-11.930	40.743	57.451	1.00 27.52
	ATOM	660	CG	MET A	86	-12.756	41.222	56.274	1.00 30.43
	MOTA	661	SD	MET A	86	-11.679	41.978	55.050	1.00 37.30
	ATOM	662	CE	MET A	86	-12.815	42.248	53.681	1.00 37.61
• •	ATOM	663	N	GLU A	87	-14.507	38.295	57.832	1.00 34.14
30	ATOM	664	CA	GLU A	87	-15.060	37.093	57.184	1.00 36.06
	MOTA	665	С	GLU A	87	-15.538	37.367	55.766	1.00 39.45
	MOTA	666	0	GLU A	87	-16.366	38.250	55.586	1.00 41.63
	MOTA	667	CB	GLU A	87	-16.211	36.499	58.003	1.00 37.41
	MOTA	668	CG	GLU A	87	-16.540	35.036	57.655	1.00 43.37
3 <i>5</i>	ATOM	669	CD	GLU A	87	-17.445	34.371	58.657	1.00 60.02
	MOTA	670	OE1	GLU A	87	-18.629	34.637	58.785	1.00 83.59
	ATOM	671	OE2	GLU A	87	-16.827	33.467	59.375	1.00 74.01
	ATOM	672	N	ILE A	88	-15.000	36.608	54.788	1.00 34.85
	ATOM	673	CA	ILE A	88	-15.343	36.698	53.359	1.00 33.18
40	ATOM	674	С	ILE A	88	-16.170	35.489	52.896	1.00 42.28
	ATOM	675	0	ILE A	88	-15.895	34.352	53.254	1.00 43.61
	ATOM	676	СВ	ILE A	88	-14.122	36.878	52.475	1.00 33.03
	ATOM	677	CG1	ILE A	88	-13.251	38.003	53.020	1.00 31.03
	ATOM	678	CG2	ILE A	88	-14.525	37.171	51.035	1.00 31.15
45	ATOM	679		ILE A	88	-12.088	38.331	52.096	1.00 33.21
	MOTA	680	N	SER A	89	-17.222	35.723	52.116	1.00 41.90
	ATOM	681	CA	SER A	89	-18.072	34.635	51.633	1.00 40.20
	ATOM	682	С	SER A	89	-17.689	34.229	50.234	1.00 43.89
	ATOM	683	ō	SER A	89	-17.731	35.037	49.296	1.00 40.79
50	ATOM	684	CB	SER A	89	-19.557	34.959	51.685	1.00 43.23
	ATOM	685	OG	SER A	89	-20.042	34.675	52.986	1.00 57.92
	ATOM	686	N	LEU A	90	-17.298	32.967	50.099	1.00 41.94
	ATOM	687	CA	LEU A	90	-16.945	32.481	48.793	1.00 41.32
	ATOM	688	С	LEU A	90	-18.258	32.175	48.106	1.00 41.86
55	ATOM	689	ō	LEU A	90	-19.186	31.608	48.692	1.00 41.35
~ ~	ATOM	690	СВ	LEU A	90	-16.014	31.252	48.856	1.00 41.35
	ATOM	691	CG	LEU A	90	-14.827	31.484	49.781	
	ATOM	692		LEU A		-14.827			1.00 43.31
					90		30.182	50.020	1.00 40.39
60	ATOM	693		LEU A	90	-13.940	32.569	49.162	1.00 40.88
00	ATOM	694	N	PRO A	91	-18.337	32.612	46.887	1.00 40.52
	ATOM	695	CA	PRO A	91	-19.516	32.434	46.056	1.00 43.11
	ATOM	696	С	PRO A	91	-19.516	31.058	45.401	1.00 51.36
	ATOM	697	0	PRO A	91	-20.363	30.753	44.576	1.00 52.06
	ATOM	698	CB	PRO A	91	-19.359	33.470	44.942	1.00 43.83

	MOTA	699	CG	PRO A	A 91		-17.883	33.867	44.915	1.00 48.09
	MOTA	700	CD	PRO I	A 91		-17.268	33.373	46.217	1.00 41.44
	ATOM	701	N	ILE A	A 92		-18.516	30.261	45.767	1.00 50.02
	ATOM	702	CA	ILE A	A 92	:	-18.325	28.924	45.259	1.00 50.50
5	ATOM	703	С	ILE A	A 92	:	-17.525	28.128	46.242	1.00 47.69
	ATOM	704	0	ILE A	A 92	•	-16.416	28.497	46.564	1.00 46.80
	ATOM	705	СВ	ILE A			-17.492	28.924	44.001	1.00 55.84
	ATOM	706	CG1				-18.372	29.135	42.791	1.00 58.16
	ATOM	707	CG2	ILE A			-16.776	27.584	43.884	1.00 59.08
10	ATOM	708		ILE A			-17.568	29.038	41.493	1.00 83.51
10		709		ALA					46.683	
	ATOM		N				-18.047	27.023		1.00 40.78
	ATOM	710	CA	ALA A			-17.280	26.257	47.599	1.00 38.66
	ATOM	711	С	ALA A			-16.066	25.735	46.892	1.00 45.36
1.5	MOTA	712	0	ALA A			-16.141	25.391	45.720	1.00 47.87
15	ATOM	713	CB	ALA A			-18.114	25.149	48.205	1.00 38.35
	ATOM	714	N	LEU A	A 94	l	-14.956	25.716	47.630	1.00 42.52
	ATOM	715	CA	LEU A	A 94	Į.	-13.652	25.233	47.181	1.00 41.33
	ATOM	716	C	LEU Z	A 94		-13.330	23.900	47.814	1.00 46.96
	MOTA	717	0	LEU I	A 94	ļ	-13.719	23.618	48.948	1.00 45.93
20	ATOM	718	CB	LEU A	A 94	ļ	-12.515	26.182	47.571	1.00 39.52
	ATOM	719	CG	LEU A	A 94		-12.515	27.449	46.748	1.00 44.05
	ATOM	720	CD1	LEU A			-11.153	28.133	46.829	1.00 44.88
	ATOM	721		LEU			-12.843	27.115	45.305	1.00 45.42
	ATOM	722	N	SER A			-12.604	23.083	47.074	1.00 44.42
25	ATOM	723	CA	SER A			-12.221	21.807	47.591	1.00 43.44
20	ATOM	724	C	SER A			-10.728	21.776	47.719	1.00 36.96
	ATOM	725	0	SER A			-10.728	22.639	47.187	1.00 33.14
	MOTA	726	СВ	SER A			-12.739	20.704	46.696	1.00 51.13
	MOTA	727	OG	SER A			-14.083	20.704	47.074	1.00 51.13
30		728								
30	ATOM		N	LYS I			-10.240	20.779	48.407	1.00 33.03
	MOTA	729	CA	LYS			-8.818	20.694	48.557	1.00 33.15
	MOTA	730	С	LYS I			-8.122	21.204	47.321	1.00 37.16
	ATOM	731	0	LYS I			-8.514	20.922	46.188	1.00 38.12
25	ATOM	732	СВ	LYS I			-8.348	19.290	48.861	1.00 34.42
35	ATOM	733	CG	LYS Z			-8.583	18.910	50.298	1.00 57.96
	ATOM	734	CD	LYS A	A 96	5	-8.422	17.423	50.553	1.00 73.54
	ATOM	735	CE	LYS Z	A 96	5	-9.475	16.882	51.512	1.00 94.46
	ATOM	736	NZ	LYS A	A 96	5	-9.837	15.475	51.246	1.00100.00
	ATOM	737	N	ASN A	A 97	,	-7.069	21.958	47.573	1.00 29.05
40	ATOM	738	CA	ASN A	A 97	,	-6.213	22.528	46.568	1.00 25.85
	ATOM	739	С	ASN A	A 97	?	-6.783	23.479	45.576	1.00 31.84
	ATOM	740	0	ASN A	A 97	,	-6.064	23.909	44.682	1.00 33.02
	ATOM	741	CB	ASN Z	A 97	,	-5.166	21.572	46.006	1.00 33.23
	ATOM	742	CG	ASN A	A 97	,	-4.289	21.018	47.135	1.00 55.19
45	ATOM	743	OD1	ASN A	A 97	,	-4.009	19.823	47.186	1.00 56.15
	ATOM	744		ASN 2			-3.873	21.867	48.073	1.00 43.36
	ATOM	745	N	GLN A			-8.053	23.835	45.730	1.00 32.99
	ATOM	746	CA	GLN A			-8.611	24.798	44.792	1.00 35.56
	ATOM	747	c.	GLN A			-8.259	26.220	45.204	1.00 40.34
50	ATOM	748	Ö	GLN 2						
50		749					-8.208	26.541	46.381	1.00 37.21
	ATOM		CB	GLN A			-10.111	24.610	44.555	1.00 38.17
	ATOM	750	CG	GLN A			-10.446	23.220	43.974	1.00 47.37
	ATOM	751	CD	GLN .			-11.869	23.144	43.480	1.00 68.06
E E	ATOM	752	OE1				-12.676	22.343	43.981	1.00 68.25
55	ATOM	753	NE2	GLN .			-12.184	24.014	42.527	1.00 58.46
	ATOM	754	N	GLU I			-8.007	27.049	44.206	1.00 42.57
	ATOM	755	CA	GLU			-7.630	28.442	44.380	1.00 43.65
	ATOM	756	С	GLU Z	A 99	)	-8.649	29.427	43.778	1.00 47.15
	ATOM	757	0	GLU	A 99	3	-9.262	29.166	42.734	1.00 44.38
60	MOTA	758	CB	GLU :	A 99	)	-6.229	28.688	43.745	1.00 44.65
	ATOM	759	CG	GLU A			-5.210	27.549	44.026	1.00 62.98
	MOTA	760	CD	GLU Z			-3.804	27.766	43.496	1.00 92.15
	ATOM	761	OE1				-3.299	28.867	43.338	1.00100.00
	ATOM	762		GLU 2			-3.191	26.625	43.252	1.00 78.70

		ATOM	763	N	ILE A	100	-8.801	30.565	44.468	1.00 41.83
		ATOM	764	CA	ILE A	100	-9.632	31.698	44.080	1.00 38.88
		ATOM	765	С	ILE A		-8.784	32.895	44.373	1.00 43.54
		ATOM	766	0	ILE A		-7.812	32.830	45.135	1.00 42.91
	5	ATOM	767	CB	ILE A		-10.879	31.971	44.904	1.00 42.18
		ATOM	768		ILE A		-10.849	31.355	46.271	1.00 47.13
		MOTA MOTA	769 770		ILE A		-12.225	31.875	44.204	1.00 41.40
		ATOM	771	N	VAL A		-10.493 -9.156	32.395 34.001	47.331 43.784	1.00 74.72
	10	ATOM	772	CA	VAL A		-8.461	35.229	44.067	1.00 39.29 1.00 37.27
		ATOM	773	C	VAL A		-9.435	36.255	44.626	1.00 37.27
		ATOM	774	Ö	VAL A		-10.516	36.464	44.098	1.00 38.28
		ATOM	775	СВ	VAL A		-7.425	35.723	43.080	1.00 36.91
		ATOM	776	CG1	VAL A		-7.497	34.980	41.770	1.00 34.64
	15	MOTA	777		VAL A		-7.482	37.237	42.939	1.00 35.34
		MOTA	778	N	ILE A		-9.078	36.828	45.749	1.00 31.68
		MOTA	779	CA	ILE A		-9.924	37.777	46.403	1.00 28.22
		ATOM	780	C	ILE A		-9.328	39.135	46.284	1.00 31.14
	20	ATOM	781	0	ILE A		-8.173	39.344	46.618	1.00 31.20
	20	ATOM	782	CB	ILE A		-10.086	37.348	47.841	1.00 30.22
		ATOM	783		ILE A		-10.432	35.863	47.821	1.00 30.27
		MOTA MOTA	784 785		ILE A		-11.214 -10.807	38.112 35.275	48.495	1.00 30.53
_		ATOM	786	N	GLU A		-10.007	40.073	49.187 45.761	1.00 36.83 1.00 26.48
	25	ATOM	787	CA	GLU A		-9.510	41.390	45.655	1.00 20.48
		ATOM	788	C	GLU A		-10.196	42.340	46.596	1.00 38.06
		ATOM	789	ō	GLU A		-11.400	42.583	46.488	1.00 39.31
		ATOM	790	СВ	GLU A		-9.496	41.944	44.256	1.00 31.96
		ATOM	791	CG	GLU A	103	-9.063	43.403	44.237	1.00 41.76
	30	MOTA	792	CD	GLU A	103	-9.594	44.045	43.003	1.00 80.28
		ATOM	793		GLU A		-10.653	44.658	42.976	1.00 97.93
		ATOM	794		GLU A		-8.842	43.798	41.957	1.00 70.69
		ATOM	795	N	ILE A		-9.409	42.831	47.536	1.00 33.55
	35	MOTA MOTA	796 797	CA C	ILE A		-9.900 -0.417	43.716	48.562	1.00 30.57
	55	ATOM	798	0	ILE A		-9.417 -8.209	45.121 45.395	48.376 48.262	1.00 32.37
		ATOM	799	CB	ILE A		-9.522	43.227	49.955	1.00 28.32 1.00 33.68
		ATOM	800		ILE A		-9.880	41.763	50.117	1.00 33.00
		ATOM	801		ILE A		-10.221	44.054	51.024	1.00 32.15
	40	ATOM	802		ILE A		-9.097	41.073	51.227	1.00 34.97
		ATOM	803	N	SER A	105	-10.433	45.980	48.336	1.00 35.99
		ATOM	804	CA	SER A	105	-10.304	47.420	48.202	1.00 37.06
		ATOM	805	С	SER A	105	-10.231	47.965	49.624	1.00 32.66
	45	ATOM	806	0	SER A		-11.184	47.854	50.409	1.00 27.10
	45	ATOM	807	CB	SER A		-11.479		47.438	1.00 41.57
		ATOM ATOM	808	OG	SER A		-11.142	48.056	46.066	1.00 42.85
		ATOM	809 810	N CA	PHE A		-9.069 -8.932	48.495 48.950	49.970 51.316	1.00 26.79 1.00 24.44
		ATOM	811	C	PHE A		-8.247	50.298	51.442	1.00 27.41
•:••:	50	ATOM	812	ō	PHE A		-7.592	50.835	50.512	1.00 23.66
:		ATOM	813	СВ	PHE A		-8.098	47.870	52.069	1.00 25.82
:		MOTA	814	CG	PHE A		-6.659	47.899	51.602	1.00 26.84
: · · · :		ATOM	815		PHE A	106	-6.279	47.176	50.473	1.00 29.09
• •		ATOM	816		PHE A		-5.690	48.683	52.244	1.00 26.96
: .:	55	MOTA	817		PHE A		-4.959	47.223	50.019	1.00 30.72
<b>:</b> .		MOTA	818		PHE A		-4.371	48.760	51.788	1.00 27.84
: **		ATOM	819	CZ	PHE A		-4.003	48.008	50.670	1.00 27.74
:		ATOM ATOM	820 821	N CA	GLU A		-8.390 -3.336	50.814	52.669	1.00 27.81
	60	ATOM	822	CA	GLU A		-7.776 -7.255	52.082 52.010	53.054 54.493	1.00 30.68 1.00 30.66
: :		ATOM	823	0	GLU A		-7.233 -7.991	51.628	55.409	1.00 30.66
		ATOM	824	СВ	GLU A		-8.744	53.268	52.866	1.00 32.32
• • •		ATOM	825	CG	GLU A		-8.059	54.652	52.795	1.00 50.92
		ATOM	826	CD	GLU A		-9.053	55.794	52.621	1.00 75.89
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	3.5014	007	0.01	GT !!		107	0.400			1 00 01 01
	ATOM	827		GLU			-9.430	56.225	51.535	1.00 61.91
	ATOM	828	OE2	GLU			-9.483	56.292	53.762	1.00 47.17
	ATOM	829	N	THR			-5.978	52.366	54.682	1.00 26.11
5	ATOM	830	CA	THR			-5.341	52.325	56.009	1.00 28.04
,	ATOM	831	C	THR			-5.664	53.563	56.790	1.00 32.96
	ATOM	832	0	THR			-5.881	54.618	56.202	1.00 30.16
	ATOM	833	CB	THR			-3.787	52.277	55.957	1.00 35.08
	MOTA	834		THR			-3.245	53.465	55.378	1.00 29.19
10	ATOM	835	CG2				-3.254	51.032	55.245	1.00 32.38
10	ATOM	836	N	SER			-5.650	53.417	58.112	1.00 28.09
	ATOM	837	CA	SER			-5.890	54.508	59.057	1.00 22.39
	ATOM	838	С	SER			-4.612	55.300	59.248	1.00 26.59
	ATOM	839	0	SER			-3.497	54.766	59.191	1.00 23.06
1.0	ATOM	840	CB	SER			-6.316	53.896	60.386	1.00 23.90
15	ATOM	841	OG	SER	Α	109	-6.087	54.804	61.448	1.00 27.48
	ATOM	842	И	PRO	Α	110	-4.720	56.594	59.495	1.00 28.89
	ATOM	843	CA	PRO			-3.481	57.312	59.703	1.00 27.31
	ATOM	844	С	PRO	Α	110	-2.840	56.838	60.993	1.00 27.91
••	ATOM	845	0	PRO	Α	110	-1.651	57.033	61.172	1.00 28.30
20	ATOM	846	CB	PRO	A	110	-3.776	58.792	59.689	1.00 28.41
	ATOM	847	CG	PRO	Α	110	-5.188	58.921	59.138	1.00 33.97
	ATOM	848	CD	PRO	Α	110	~5.820	57.545	59.214	1.00 30.89
	ATOM	849	N	LYS	Α	111	-3.640	56.170	61.848	1.00 21.21
	MOTA	850	CA	LYS	Α	111	-3.137	55.620	63.098	1.00 21.20
25	ATOM	851	С	LYS	Α	111	-2.634	54.163	62.972	1.00 24.12
	ATOM	852	0	LYS	Α	111	-2.502	53.476	63.990	1.00 27.31
	ATOM	853	CB	LYS	Α	111	-4.188	55.688	64.202	1.00 24.13
	MOTA	854	CG	LYS	Α	111	~4.435	57.079	64.786	1.00 44.09
	ATOM	855	CD	LYS	A	111	-5.146	58.027	63.832	1.00 80.95
30	ATOM	856	CE	LYS	Α	111	-6.627	57.733	63.614	1.00100.00
	ATOM	857	NZ	LYS	A	111	-7.193	58.483	62.473	1.00100.00
	ATOM	858	N	SER	Α	112	-2.371	53.669	61.743	1.00 21.95
	ATOM	859	CA	SER	Α	112	-1.891	52.278	61.499	1.00 21.09
	ATOM	860	С	SER	A	112	-0.709	51.968	62.438	1.00 23.23
35	ATOM	861	0	SER	A	112	0.236	52.722	62.472	1.00 25.25
	ATOM	862	CB	SER	Α	112	-1.467	52.084	60.034	1.00 17.80
	ATOM	863	OG	SER	Α	112	-0.821	50.850	59.845	1.00 19.72
	ATOM	864	N	SER	Α	113	-0.752	50.884	63.203	1.00 19.64
	ATOM	865	CA	SER			0.342	50.587	64.087	1.00 16.68
40	MOTA	866	C.	SER			1.539	50.087	63.316	1.00 22.16
	ATOM	867	0	SER	Α	113	2.653	50.005	63.822	1.00 21.53
	MOTA	868	CB	SER	Α	113	-0.061	49.633	65.183	1.00 20.15
	ATOM	869	OG	SER	Α	113	-0.358	48.369	64.663	1.00 23.41
	MOTA	870	N	ALA	Α	114	1.325	49.741	62.059	1.00 21.04
45	ATOM	871	CA	ALA	Α	114	2.432	49.266	61.221	1.00 19.34
	ATOM	872	С	ALA	Α	114	3.212	50.412	60.581	1.00 20.25
	ATOM	873	0	ALA	Α	114	4.287	50.210	60.004	1.00 20.84
	ATOM	874	CB	ALA	Α	114	1.876	48.455	60.061	1.00 19.26
	ATOM	875	N	LEU			2.636	51.614	60.636	1.00 17.27
50	ATOM	876	CA	LEU	A	115	3.281	52.725	59.992	1.00 19.18
	ATOM	877	С	LEU			3.619	53.896	60.870	1.00 22.95
	ATOM	878	0	LEU	Α	115	3.042	54.162	61.924	1.00 22.70
	ATOM	879	CB	LEU			2.418	53,298	58.851	1.00 18.69
	ATOM	880	CG	LEU			1.844	52.219	57.960	1.00 24.36
55	ATOM	881	CD1	LEU			0.784	52.871	57.078	1.00 26.30
	ATOM	882		LEU			2.954	51.654	57.070	1.00 21.90
	ATOM	883	N	GLN			4.573	54.621	60.358	1.00 19.91
	ATOM	884	CA	GLN			4.959	55.857	60.974	1.00 19.64
	ATOM	885	С	GLN			5.071	56.896	59.851	1.00 22.36
60	ATOM	886	0	GLN			5.898	56.769	58.943	1.00 21.29
	ATOM	887	CB	GLN			6.195	55.857	61.891	1.00 21.78
	ATOM	888	CG	GLN			6.297	57.220	62.637	1.00 28.22
	ATOM	889	CD	GLN			7.539	57.423	63.481	1.00 33.89
	ATOM	890		GLN			8.458	56.585	63.489	1.00 21.37
					- •		5.100	22.000	555	,

	ATOM	891	NE2	GLN A 11	7.569	58.557	64.198	1.00 25.06
	MOTA	892	N	TRP A 11		57.898	59.926	1.00 21.50
	MOTA	893	CA	TRP A 11	7 4.163	58.982	58.973	1.00 22.21
_	ATOM	894	С	TRP A 11		60.164	59.588	1.00 24.80
5	MOTA	895	0	TRP A 11		60.677	60.633	1.00 24.36
	ATOM	896	CB	TRP A 11		59.380	58.730	1.00 20.63
	ATOM	897	CG	TRP A 11		58.374	57.979	1.00 21.43
	MOTA	898		TRP A 11		57.439	58.532	1.00 24.14
10	MOTA	899		TRP A 11		58.258	56.562	1.00 20.88
10	ATOM	900		TRP A 11		56.706	57.553	1.00 22.57
	ATOM	901		TRP A 11		57.196	56.331	1.00 24.10
	MOTA	902		TRP A 11		58.953	55.467	1.00 23.47
	MOTA	903	CZ2	TRP A 11		56.806	55.038	1.00 24.69
1.5	MOTA	904	CZ3	TRP A 11		58.563	54.182	1.00 26.53
15	ATOM	905		TRP A 11		57.503	53.974	1.00 27.59
	MOTA	906	N	LEU A 11		60.565	58.932	1.00 19.11
	MOTA	907	CA	LEU A 11		61.652	59.372	1.00 20.20
	MOTA	908	С	LEU A 11		62.936	58.603	1.00 29.18
20	ATOM	909	0	LEU A 11		62.907	57.379	1.00 29.44
20	MOTA	910	CB	LEU A 11		61.287	59.137	1.00 21.47
	ATOM	911	CG	LEU A 11		60.284	60.141	1.00 28.52
	MOTA	912		LEU A 11		59.016	60.275	1.00 30.03
	ATOM	913		LEU A 11		59.939	59.716	1.00 27.52
25	ATOM	914	N	THR A 11		64.076	59.305	1.00 23.98
23	ATOM	915	CA	THR A 11		65.362	58.636	1.00 19.34
	ATOM	916	С	THR A 11		65.731	58.183	1.00 23.45
	ATOM	917	0	THR A 11	-	65.253	58.783	1.00 24.77
	MOTA	918	CB CC1	THR A 11		66.402	59.682	1.00 26.76
30	ATOM	919	OG1			66.529	60.673	1.00 27.33
30	ATOM ATOM	920 921	CG2 N	THR A 11 PRO A 12		65.950 66.565	60.390 57.151	1.00 28.42 1.00 22.29
	ATOM	922	CA	PRO A 12		66.927	56.678	1.00 22.29
	ATOM	923	C	PRO A 12		67.419	57.800	1.00 28.55
	ATOM	924	Õ	PRO A 12		67.260	57.754	1.00 27.54
35	ATOM	925	СВ	PRO A 12		68.024	55.624	1.00 27.34
	MOTA	926	CG	PRO A 12		68.150	55.384	1.00 24.12
	MOTA	927	CD	PRO A 12		67.282	56.407	1.00 21.87
	ATOM	928	N	GLU A 12		68.022	58.822	1.00 28.60
	ATOM	929	CA	GLU A 12		68.529	59.937	1.00 31.89
40	ATOM	930	С	GLU A 12		67.394	60.658	1.00 37.79
	MOTA	931	0	GLU A 12		67.554	61.198	1.00 35.72
	ATOM	932	CB	GLU A 12		69.247	60.938	1.00 34.43
	ATOM	933	CG	GLU A 12		70.526	60.397	1.00 61.71
	ATOM	934	CD	GLU A 12		70.370	59.250	1.00 95.37
45	ATOM	935	OE1	GLU A 12	6.808	69.624	59.252	1.00 50.70
	MOTA	936	OE2	GLU A 12	8.033	71.193	58.262	1.00100.00
	MOTA	937	N	GLN A 12	2 10.456	66.228	60.673	1.00 33.10
	ATOM	938	CA	GLN A 12	2 11.011	65.066	61.339	1.00 30.63
	MOTA	939	С	GLN A 12		64.392	60.538	1.00 33.25
50	MOTA	940	0	GLN A 12		63.388	60.962	1.00 33.00
	ATOM	941	CB	GLN A 12	9.905	64.039	61.637	1.00 30.70
	MOTA	942	CG	GLN A 12		64.462	62.774	1.00 23.20
	MOTA	943	CD	GLN A 12		63.620	62.818	1.00 27.73
	MOTA	944		GLN A 12		63.798	62.016	1.00 34.90
55	MOTA	945		GLN A 12		62.689	63.757	1.00 30.55
	ATOM	946	N	THR A 12		64.912	59.356	1.00 29.61
	ATOM	947	CA	THR A 12		64.288	58.495	1.00 27.96
	MOTA	948	С	THR A 12		65.030	58.506	1.00 31.63
<b>CO</b>	MOTA	949	0	THR A 12		66.111	59.060	1.00 34.46
60	ATOM	950	CB	THR A 12		64.183	57.029	1.00 24.54
	ATOM	951		THR A 12		65.504	56.515	1.00 28.43
	MOTA	952		THR A 12		63.521	56.985	1.00 18.48
	MOTA	953	N	SER A 12		64.440	57.870	1.00 24.71
	ATOM	954	CA	SER A 12	16.980	65.088	57.814	1.00 25.71

		ATOM	955	С	SER A	A 124	16.886	66.308	56.900	1.00 34.45	
		ATOM	956	ō		A 124	17.399	67.377			
									57.227	1.00 34.98	
		MOTA	957	CB		A 124	18.094	64.182	57.317	1.00 25.78	
	_	MOTA	958	QG	SER A	A 124	18.268	63.099	58.177	1.00 34.37	
	5	ATOM	959	N	GLY A	A 125	16.221	66.110	55.756	1.00 32.47	
		MOTA	960	CA		A 125	16.042	67.119	54.717		
										1.00 33.54	
		MOTA	961	C		A 125	15.086	68.279	55.024	1.00 38.01	
		MOTA	962	0	GLY A	A 125	15.226	69.371	54.450	1.00 35.01	
		MOTA	963	N	LYS A	A 126	14.100	68.055	55.893	1.00 32.87	
	10	ATOM	964	CA	LYS A		13.181		56.236		
	10							69.126		1.00 30.74	
		MOTA	965	С		A 126	12.281	69.626	55.101	1.00 34.13	
		ATOM	966	0	LYS A	A 126	11.453	70.517	55.351	1.00 33.10	
		MOTA	967	CB	LYS A	A 126	13.940	70.303	56.823	1.00 31.29	
		MOTA	968	CG		126	15.031	69.877	57.790		
	15									1.00 34.55	
	15	MOTA	969	CD	LYS A		14.459	69.111	58.962	1.00 40.18	
		MOTA	970	CE	LYS A	A 126	15.496	68.661	59.973	1.00 41.28	
*		ATOM	971	NZ	LYS A	126	14.895	67.775	60.987	1.00 46.79	
		ATOM	972	N	GLU A		12.436	69.079	53.869	1.00 27.28	
		ATOM	973	CA							
	20				GLU A		11.617	69.510	52.737	1.00 26.31	
	20	MOTA	974	С	GLU A	127	10.566	68.517	52.300	1.00 35.95	
_		ATOM	975	0	GLU A	127	9.636	68.879	51.575	1.00 35.05	
		MOTA	976	СВ	GLU A		12.460	69.926	51.535	1.00 27.71	
		ATOM	977	CG	GLU A						
_							13.434	71.052	51.871	1.00 37.61	
	25	ATOM	978	CD	GLU A		12.763	72.391	51.971	1.00 42.53	
	25	ATOM	979	OE1	GLU A	127	11.816	72.730	51.272	1.00 63.41	
		ATOM	980	OE2	GLU A	127	13.334	73.149	52.873	1.00 42.43	
		MOTA	981	N	HIS A		10.729	67.260	52.730		
										1.00 32.31	
		ATOM	982	CA	HIS A		9.786	66.221	52.395	1.00 29.92	
	20	ATOM	983	С	HIS A	128	9.400	65.337	53.570	1.00 27.82	
	30	MOTA	984	0	HIS A	128	10.117	65.179	54.549	1.00 29.92	
		ATOM	985	CB	HIS A		10.345	65.324	51.308	1.00 29.24	
		ATOM	986	CG	HIS A						
							10.843	66.080	50.152	1.00 31.61	
		ATOM	987		HIS A		9.978	66.601	49.205	1.00 33.89	
		ATOM	988	CD2	HIS P	128	12.113	66.358	49.795	1.00 34.18	
	35	ATOM	989	CE1	HIS A	128	10.738	67.176	48.294	1.00 33.86	
		ATOM	990		HIS A		12.030	67.053	48.618	1.00 34.37	
		ATOM	991								
				N	PRO P		8.261	64.747	53.430	1.00 21.92	
		MOTA	992	CA	PRO P		7.756	63.846	54.424	1.00 21.51	
		ATOM	993	С	PRO P	129	8.419	62.474	54.216	1.00 26.61	
	40	ATOM	994	0	PRO A	129	9.302	62.284	53.376	1.00 25.02	
		ATOM	995	СВ	PRO P		6.265	63.736	54.162		
										1.00 21.80	
		ATOM	996	CG	PRO P		6.098	64.059	52.690	1.00 28.71	
		ATOM	997	CD	PRO A	129	7.353	64.818	52.263	1.00 23.90	
		ATOM	998	N	TYR A	130	8.016	61.498	54.998	1.00 22.26	
	45	ATOM	999	CA	TYR A	130	8.646	60.195	54.881	1.00 20.30	
		ATOM		С	TYR A		7.747	59.148	55.492		
										1.00 23.74	
		ATOM	1001	0	TYR A		7.022	59.381	56.442	1.00 23.54	
_		MOTA	1002	CB	TYR A		9.959	60.250	55.663	1.00 20.15	
• • • • •		ATOM	1003	CG	TYR A	130	10.909	59.072	55.574	1.00 23.26	
	50	ATOM	1004		TYR A		10.623	57.805	56.104	1.00 23.27	
:		ATOM	1005		TYR A						
:							12.148	59.271	54.966	1.00 24.16	
_*. :		MOTA	1006		TYR A		11.555	56.765	56.013	1.00 20.09	
		ATOM	1007	CE2	TYR A	130	13.100	58.255	54.888	1.00 23.94	
		ATOM	1008	CZ	TYR A	130	12.795	57.001	55.410	1.00 19.50	
	55	ATOM	1009	ОН	TYR A						
•0							13.751	56.053	55.281	1.00 24.55	
		ATOM	1010	N	LEU A		7.764	57.970	54.948	1.00 21.39	
:		MOTA	1011	CA	LEU A	131	6.916	56.975	55.551	1.00 23.29	
		ATOM	1012	С	LEU A		7.671	55.654	55.583	1.00 26.48	
•		MOTA	1013	ō	LEU A		8.450	55.368			
	60								54.658	1.00 22.90	
: :	00	ATOM	1014		LEU A		5.632	56.805	54.721	1.00 22.31	
		ATOM	1015		LEU A		4.960	55.462	54.943	1.00 24.82	
		ATOM	1016	CD1	LEU A	131	4.060	55.574	56.168	1.00 24.09	
-		ATOM	1017		LEU A		4.166	55.056	53.690	1.00 23.63	
		ATOM	1018	N							
		111 011	1010	14	PHE A	132	7.463	54.866	56.631	1.00 24.01	

•

	ATOM	1019	CA	PHE A 13	32	8.101	53.539	56.711	1.00 2	3.69
	ATOM	1020	С	PHE A 13	32	7.231	52.575	57.474	1.00 23	3.59
	ATOM	1021	0	PHE A 13	32	6.529	52.952	58.394	1.00 20	0.95
	ATOM	1022	CB	PHE A 13	32	9.545	53.507	57.253	1.00 2	5.79
5	ATOM	1023	CG	PHE A 13	32	9.654	53.806	58.740	1.00 20	5.81
	ATOM	1024	CD1	PHE A 13	32	9.338	52.852	59.713	1.00 2	
	ATOM	1025	CD2	PHE A 13	32	10.102	55.055	59.169	1.00 2	
	MOTA	1026		PHE A 13		9.458	53.144	61.074	1.00 24	
	ATOM	1027		PHE A 13		10.230	55.362	60.525	1.00 2	
10	ATOM	1028	CZ	PHE A 13		9.900	54.403	61.485	1.00 1	
•	ATOM	1029	N	SER A 13		7.246	51.322	57.103	1.00 20	
	ATOM	1030	CA	SER A 13		6.434	50.355		1.00 2	
								57.804		
	ATOM	1031	C	SER A 13		7.320	49.461	58.639	1.00 1	
15	ATOM	1032	0	SER A 13		8.539	49.439	58.517	1.00 2	
15	ATOM	1033	CB	SER A 13		5.739	49.451	56.811	1.00 2	
	MOTA	1034	OG	SER A 13		6.735	48.694	56.128	1.00 2	
	MOTA	1035	N	GLN A 13	34	6.659	48.710	59.463	1.00 1	5.44
	MOTA	1036	CA	GLN A 13		7.268	47.748	60.340	1.00 1	6.95
••	MOTA	1037	С	GLN A 13		6.181	46.760	60.729	1.00 2	1.06
20	MOTA	1038	0	GLN A 13	34	5.401	46.994	61.632	1.00 2	2.06
	MOTA	1039	CB	GLN A 13	3 4	7.966	48.415	61.526	1.00 1	6.26
	MOTA	1040	CG	GLN A 13	3 4	8.392	47.346	62.549	1.00 2	4.87
	ATOM	1041	CD	GLN A 13	3 4	9.424	46.414	61.955	1.00 3	6.09
	ATOM	1042		GLN A 13	3 4	10.363	46.862	61.280	1.00 2	
25	ATOM	1043	NE2			9.242	45.111	62.187	1.00 3	
	ATOM	1044	N	CYS A 13		6.076	45.647	60.013	1.00 1	
	ATOM	1045	CA	CYS A 13		5.025	44.712	60.313	1.00 1	
	ATOM	1046	C	CYS A 13		5.298	43.683	61.381	1.00 1	
	ATOM	1047	Ö	CYS A 13		4.354	43.170	61.995	1.00 1	
30	ATOM	1047	СВ	CYS A 13		4.649	43.170	59.067		
30	ATOM	1049	SG	CYS A 13		4.051	44.971	57.762	1.00 20	
	ATOM	1050	N	GLN A 13		6.545	43.284	61.564	1.00 2	
	ATOM	1051	CA	GLN A 13		6.756	42.242	62.572	1.00 1	
	ATOM	1051	C	GLN A 13		6.454	42.824	63.926		
35	ATOM	1053	o	GLN A 13		6.853	43.946	64.194	1.00 20	
55	MOTA	1053		GLN A 13					1.00 2	
		1054	CB			8.204	41.703	62.520	1.00 1	
	ATOM		CG	GLN A 13		8.488	40.565	63.533	1.00 1	
	ATOM	1056	CD	GLN A 13		9.930	40.052	63.434	1.00 2	
40	ATOM	1057	OE1			10.835	40.746	62.930	1.00 1	
40	ATOM	1058	NE2			10.141	38.826	63.903	1.00 2	
	ATOM	1059	N	ALA A 13		5.730	42.087	64.769	1.00 1	
	MOTA	1060	CA	ALA A 13		5.243	40.724	64.514	1.00 1	
	ATOM	1061	С	ALA A 13		3.931	40.636	63.807	1.00 20	0.75
	ATOM	1062	0	ALA A 13		3.798	39.912	62.836	1.00 19	9.63
45	ATOM	1063	CB	ALA A 13	37	5.087	39.918	65.813	1.00 1	6.76
	ATOM	1064	N	ILE A 13	88	2.951	41.338	64.321	1.00 1	3.31
	ATOM	1065	CA	ILE A 13	38	1.647	41.247	63.721	1.00 1	8.68
	ATOM	1066	С	ILE A 13	38	1.065	42.566	63.294	1.00 19	9.68
	ATOM	1067	0	ILE A 13	38	-0.053	42.896	63.633	1.00 2	1.65
50	ATOM	1068	CB	ILE A 13		0.727	40.532	64.692	1.00 20	0.75
	ATOM	1069	CG1	ILE A 13	38	0.761	41.275	66.024	1.00 2	
	ATOM	1070		ILE A 13		1.241	39.124.	64.882	1.00 1	
	ATOM	1071		ILE A 13		-0.211	40.698	67.044	1.00 2	
	ATOM	1072	N	HIS A 13		1.789	43.309	62.525	1.00 1	
55	ATOM	1073	CA	HIS A 13		1.231	44.581	62.113	1.00 1	
-	ATOM	1074	c.	HIS A 13		0.899	44.615	60.644	1.00 2	
	ATOM	1075	ŏ	HIS A 13		0.427	45.604	60.127	1.00 2	
		1076	СВ	HIS A 13						
	MOTA	1076	CG	HIS A 13		2.149	45.781	62.471	1.00 1:	
60	ATOM	1077				2.429	45.870	63.961		
UU	ATOM			HIS A 13		1.476	46.324	64.872	1.00 2	
	MOTA	1079		HIS A 13		3.547	45.567	64.661	1.00 2	
	ATOM	1080		HIS A 13		2.022	46.253	66.072	1.00 2	
	ATOM	1081		HIS A 13		3.259	45.811	65.980	1.00 2	
	MOTA	1082	N	CYS A 14	10	1.175	43.545	59.942	1.00 2	1.39

,

	ATOM	1083	CA	CYS A 140	0.854	43.573	58.525	1.00 21.71
	ATOM	1084	С	CYS A 140	-0.630	43.848	58.327	1.00 20.64
	ATOM	1085	0	CYS A 140	-1.071	44.542	57.405	1.00 21.98
_	ATOM	1086	CB	CYS A 140	1.237	42.260	57.823	1.00 22.30
5	ATOM	1087	SG	CYS A 140	1.089	42.457	56.029	1.00 27.57
	ATOM	1088	N	ARG A 141	-1.384	43.259	59.232	1.00 18.28
	ATOM	1089	CA	ARG A 141	-2.819	43.369	59.261	1.00 20.32
	MOTA	1090	C	ARG A 141	-3.265	44.823	59.352	1.00 27.93
10	ATOM	1091	0	ARG A 141	-4.438	45.135	59.078	1.00 29.72
10	MOTA MOTA	1092 1093	CB CG	ARG A 141 ARG A 141	-3.436 -3.035	42.518 42.944	60.369	1.00 16.68
	ATOM	1093	CD	ARG A 141	-3.571	41.985	61.781 62.866	1.00 18.27 1.00 15.44
	ATOM	1095	NE	ARG A 141	-2.857	40.717	62.896	1.00 13.44
	ATOM	1096	cz	ARG A 141	-2.996	39.785	63.813	1.00 20.13
15	ATOM	1097		ARG A 141	-3.825	39.908	64.827	1.00 16.67
	ATOM	1098	NH2		-2.258	38.692	63.685	1.00 22.83
	ATOM	1099	N	ALA A 142	-2.314	45.707	59.754	1.00 18.15
	ATOM	1100	CA	ALA A 142	-2.599	47.127	59.901	1.00 17.64
	ATOM	1101	С	ALA A 142	-2.265	47.823	58.619	1.00 22.89
20	ATOM	1102	0	ALA A 142	-2.296	49.024	58.506	1.00 22.38
	ATOM	1103	CB	ALA A 142	-1.908	47.771	61.085	1.00 17.04
	ATOM	1104	N	ILE A 143	-1.925	47.041	57.621	1.00 24.40
	MOTA	1105	CA	ILE A 143	-1.634	47.632	56.341	1.00 25.97
25	ATOM	1106	С	ILE A 143	-2.641	47.117	55.334	1.00 33.49
25	MOTA	1107	0	ILE A 143	-3.259	47.865	54.585	1.00 36.37
	ATOM	1108	CB	ILE A 143	-0.222	47.447	55.839	1.00 29.94
	ATOM	1109		ILE A 143	0.791	47.972	56.853	1.00 29.88
	ATOM	1110		ILE A 143	-0.094	48.232	54.533	1.00 33.06
30	ATOM ATOM	1111 1112	N	ILE A 143 LEU A 144	2.224 -2.843	47.722	56.389	1.00 26.42
30	ATOM	1113	CA	LEU A 144	-3.815	45.822 45.204	55.350 54.438	1.00 28.38 1.00 29.40
	ATOM	1114	C	LEU A 144	-4.421	43.204	55.030	1.00 23.40
	MOTA	1115	0	LEU A 144	-3.928	43.349	56.037	1.00 33.99
	ATOM	1116	CB	LEU A 144	-3.213	44.969	53.037	1.00 30.31
35	ATOM	1117	CG	LEU A 144	-1.868	44.266	53.111	1.00 33.80
	ATOM	1118	CD1	LEU A 144	-2.073	42.761	53.007	1.00 35.20
	ATOM	1119	CD2	LEU A 144	-0.935	44.758	52.023	1.00 38.26
	MOTA	1120	N	PRO A 145	-5.507	43.446	54.432	1.00 27.43
	MOTA	1121	CA	PRO A 145	-6.094	42.259	54.979	1.00 25.19
40	ATOM	1122	С	PRO A 145	-5.294	41.059	54.513	1.00 23.80
	MOTA	1123	0	PRO A 145	-4.832	41.009	53.376	1.00 23.96
	ATOM	1124	CB	PRO A 145	-7.567	42.266	54.566	1.00 27.07
	MOTA	1125	CG	PRO A 145	-7.810	43.609	53.886	1.00 31.08
45	ATOM	1126	CD	PRO A 145	-6.445	44.131	53.505	1.00 26.31
40	ATOM	1127	N	CYS A 146	-5.080	40.145	55.448	1.00 23.01
	ATOM ATOM	1128 1129	CA C	CYS A 146	-4.272	38.956	55.215	1.00 24.70
	ATOM	1130	0	CYS A 146 CYS A 146	-4.329 -4.966	37.973 38.211	56.367 57.413	1.00 28.20
	ATOM	1131	СВ	CYS A 146	-2.793	39.335	55.036	1.00 23.14 1.00 25.42
50	ATOM	1132	SG	CYS A 146	-2.164	40.274	56.463	1.00 23.42
	ATOM	1133	N	GLN A 147	-3.647	36.843	56.134	1.00 31.00
	ATOM	1134	CA	GLN A 147	-3.522	35.796	57.127	1.00 23.08
	ATOM	1135	С	GLN A 147	-2.238	36.197	57.832	1.00 28.00
	ATOM	1136	0	GLN A 147	-1.131	35.841	57.415	1.00 25.08
55	MOTA	1137	CB	GLN A 147	-3.346	34.427	56.449	1.00 24.85
	MOTA	1138	CG	GLN A 147	-4.671	33.762	56.084	1.00 19.17
	ATOM	1139	CD	GLN A 147	-4.391	32.428	55.427	1.00 25.96
	ATOM	1140		GLN A 147	-3.871	32.408	54.311	1.00 20.64
<b>C</b> O	ATOM	1141		GLN A 147	-4.680	31.326	56.117	1.00 20.44
60	ATOM	1142	N	ASP A 148	-2.408	37.011	58.860	1.00 23.32
	ATOM	1143	CA	ASP A 148	-1.295	37.566	59.587	1.00 23.26
	ATOM	1144	С	ASP A 148	-0.627	36.639	60.595	1.00 23.40
	ATOM	1145	0	ASP A 148	-0.574	36.941	61.790	1.00 24.25
	MOTA	1146	CB	ASP A 148	-1.665	38.916	60.237	1.00 24.70

	ATOM	1147	CG	ASP A	148	-0.440	39.722	60.517	1.00 27.92	
	ATOM	1148		ASP A		0.678	39.389	60.113	1.00 27.89	
	ATOM	1149		ASP A		-0.695	40.795	61.224	1.00 19.92	
	ATOM	1150	N	THR A		-0.099	35,537	60.060	1.00 19.68	
5	ATOM	1151	CA	THR A		0.607	34.501	60.793	1.00 18.44	
•	ATOM	1152	c	THR A		1.818	34.079	59.981	1.00 23.20	
	ATOM	1153	ŏ	THR A		1.761	34.027	58.741	1.00 18.98	
	ATOM	1154	СВ	THR A		-0.261	33.256	61.004	1.00 29.08	
	ATOM	1155		THR A		0.577	32.168	61.421	1.00 24.67	
10	ATOM	1156		THR A		-0.979	32.910	59.680	1.00 23.64	
10	ATOM	1157	N	PRO A		2.921	33.765	60.686	1.00 21.90	
	ATOM	1158	CA	PRO A		4.159	33.703	60.016	1.00 21.30	
		1159	C	PRO A		4.018	31.886	59.479	1.00 13.21	
	ATOM ATOM	1160	o	PRO A		4.898	31.352	58.829	1.00 21.32	
15		1161	СВ	PRO A		5.260		61.103	1.00 19.24	
15	ATOM						33.356			
	ATOM	1162	CG	PRO A		4.544	33.455	62.444	1.00 20.32	
	MOTA	1163	CD	PRO A		3.125	33.922	62.168	1.00 20.18	
	MOTA	1164	N	SER A		2.902	31.226	59.771	1.00 18.68	
20	MOTA	1165	CA	SER A		2.737	29.862	59.276	1.00 20.66	
20	MOTA	1166	C	SER A		2.351	29.863	57.820	1.00 22.40	
	ATOM	1167	0	SER A		2.295	28.836	57.199	1.00 26.24	
	ATOM	1168	CB		A 151		29.117	60.057	1.00 25.01	
	ATOM	1169	OG		A 151	0.444	29.814	59.897	1.00 32.09	
25	MOTA	1170	N	VAL A		2.086	31.017	57.282	1.00 18.17	
25	MOTA	1171	CA	VAL A		1.696	31.105	55.899	1.00 20.54	
	ATOM	1172	С	VAL A		2.740	31.874	55.088	1.00 26.40	
	ATOM	1173	0	VAL A		3.159	32.955	55.494	1.00 25.43	
	ATOM	1174	CB	VAL A	A 152	0.307	31.756	55.773	1.00 22.01	
••	ATOM	1175		VAL A		0.000	32.092	54.316	1.00 21.07	
30	ATOM	1176	CG2	VAL A		-0.742	30.818	56.325	1.00 21.78	
	MOTA	. 1177	N	LYS A		3.163	31.316	53.934	1.00 21.69	
	MOTA	1178	CA	LYS A	A 153	4.146	31.985	53.101	1.00 20.64	
	MOTA	1179	С	LYS A	A 153	3.606	32.223	51.720	1.00 25.15	
	ATOM	1180	0	LYS A	A 153	3.041	31.329	51.114	1.00 27.06	
35	ATOM	1181	CB	LYS A	A 153	5.455	31.218	53.016	1.00 24.18	
	ATOM	1182	CG	LYS /	A 153	6.159	31.061	54.360	1.00 29.97	
	ATOM	1183	CD	LYS A	A 153	7.582	30.546	54.220	1.00 19.10	
	MOTA	1184	CE	LYS A	A 153	8.276	30.287	55.546	1.00 24.45	
	MOTA	1185	NZ	LYS A	A 153	9.760	30.289	55.457	1.00 21.92	
40	ATOM	1186	N	LEU A	A 154	3.768	33.438	51.213	1.00 22.90	
	ATOM	1187	CA	LEU A	A 154	3.286	33.772	49.876	1.00 22.75	
	ATOM	1188	С	LEU A	A 154	4.280	34.594	49.091	1.00 23.26	
	ATOM	1189	0	LEU A	A 154	5.225	35.207	49.624	1.00 21.95	
	ATOM	1190	CB	LEU A		1.989	34.615	49.972	1.00 23.48	
45	ATOM	1191	CG	LEU A		2,246	35.948	50.729	1.00 29.06	
	ATOM	1192		LEU A		1.385		50.200	1.00 29.05	
	ATOM	1193	CD2	LEU A	A 154	1.986	35.788	52.225	1.00 26.55	
	ATOM	1194	N	THR A		4.033	34.653	47.791	1.00 22.63	
	ATOM	1195	CA	THR A		4.862	35.499	46.940	1.00 25.54	
50	ATOM	1196	C		A 155	4.088	36.820	46.772	1.00 26.35	
50	ATOM	1197	Ö	THR A		2.929	36.943	47.190		
	ATOM	1198	СВ	THR A		5.122	34.931	45.526	1.00 26.50	
	ATOM	1199	OG1			3.937	34.294	45.141	1.00 20.30	
	ATOM	1200		THR A		6.327	33.991	45.488	1.00 21.48	
55						4.721	37.802	46.154	1.00 23.09	
رر	ATOM	1201	N		A 156				1.00 23.09	
	MOTA	1202	CA		A 156	4.021	39.040	45.943		
	ATOM	1203	C		A 156	4.631	39.924	44.889	1.00 24.76	
	ATOM	1204	0		A 156	5.846	39.919	44.601	1.00 28.65	
60	MOTA	1205	CB		A 156	3.735	39.831	47.252	1.00 22.99	
oo	ATOM	1206	CG		A 156	4.853	40.754	47.751	1.00 24.46	
	ATOM	1207		TYR A		4.992	42.048	47.246	1.00 26.47	
	ATOM	1208		TYR		5.744	40.356	48.755	1.00 22.08	
	MOTA	1209		TYR A		6.003	42.894	47.704	1.00 27.20	
	MOTA	1210	CE2	TYR A	A 156	6.755	41.194	49.242	1.00 19.36	

	ATOM	1211	CZ	TYR A 156	6.874	42.476	48.709	1.00 28.26
	ATOM	1212	ОН	TYR A 156	7.819	43.341	49.176	1.00 23.92
	ATOM	1213	N	THR A 157	3.737	40.711	44.325	1.00 20.53
	ATOM	1214	CA	THR A 157	4.079	41.726	43.358	1.00 22.66
5	ATOM	1215	C	THR A 157	3.374	42.996	43.844	1.00 27.95
,								
	ATOM	1216	0	THR A 157	2.300	42.941	44.469	1.00 27.60
	ATOM	1217	CB	THR A 157	3.660	41.345	41.931	1.00 36.12
	ATOM	1218					41.927	1.00 35.88
			OG1		2.311	40.913		
	ATOM	1219	CG2	THR A 157	4.528	40.177	41.502	1.00 31.47
10	ATOM	1220	N	ALA A 158	3.984	44.136	43.604	1.00 26.56
	ATOM						44.034	
		1221	CA	ALA A 158	3.357	45.363		1.00 28.25
	ATOM	1222	С	ALA A 158	3.661	46.555	43.115	1.00 33.79
	ATOM	1223	0	ALA A 158	4.737	46.682	42.469	1.00 31.04
1.6	MOTA	1224	CB	ALA A 158	3.749	45.700	45.460	1.00 26.89
15	ATOM	1225	N	GLU A 159	2.693	47.453	43.081	1.00 30.94
	ATOM	1226	CA	GLU A 159	2.863	48.658	42.328	1.00 32.37
	ATOM	1227	С	GLU A 159	2.434	49.789	43.226	1.00 31.24
	MOTA	1228	0	GLU A 159	1.311	49.803	43.735	1.00 29.85
	ATOM	1229	CB	GLU A 159	2.118	48.680	40.993	1.00 35.41
20								
20	ATOM	1230	CG	GLU A 159	1.749	47.300	40.444	1.00 59.87
	ATOM	1231	CD	GLU A 159	0.983	47.438	39.160	1.00 98.76
	ATOM	1232	OE1	GLU A 159	-0.110	47.979	39.091	1.00 78.51
	MOTA	1233	OE2		1.636	46.958	38.126	1.00100.00
	ATOM	1234	N	VAL A 160	3.337	50.714	43.472	1.00 28.73
25	ATOM	1235	CA	VAL A 160	2.915	51.778	44.352	1.00 29.43
							43.786	
	ATOM	1236	С	VAL A 160	3.180	53.148		1.00 29.09
	ATOM	1237	0	VAL A 160	4.292	53.442	43.354	1.00 27.09
	ATOM	1238	CB	VAL A 160	3.370	51.589	45.785	1.00 33.76
20	ATOM	1239		VAL A 160	4.212	50.321	45.892	1.00 33.85
30	ATOM	1240	CG2	VAL A 160	4.097	52.814	46.314	1.00 32.12
	ATOM	1241	N	SER A 161	2.132	53.967	43.760	1.00 29.81
	ATOM	1242	CA	SER A 161	2.249	55.323	43.202	1.00 29.33
	ATOM	1243	С	SER A 161	2.558	56.310	44.299	1.00 30.68
	ATOM	1244	0	SER A 161	1.840	56.364	45.299	1.00 32.33
35	MOTA	1245	СВ	SER A 161	0.963	55.756	42.514	1.00 32.12
55								
	ATOM	1246	OG	SER A 161	1.074	57.091	42.092	1.00 36.30
	ATOM	1247	N	VAL A 162	3.614	57.073	44.115	1.00 24.51
	MOTA	1248	CA	VAL A 162	3.968	58.033	45.125	1.00 25.24
4.0	MOTA	1249	С	VAL A 162	4.187	59.371	44.477	1.00 37.10
40	ATOM	1250	0	VAL A 162	4.359	59.438	43.257	1.00 36.28
	ATOM	1251	CB	VAL A 162	5.284	57.657	45.821	1.00 25.44
	MOTA	1252	CGI	VAL A 162	5.213	56.287	46.487	1.00 24.46
	ATOM	1253	CG2	VAL A 162	6.429	57.684	44.831	1.00 24.47
	ATOM	1254	N	PRO A 163	4.203	60.416	45.312	1.00 31.09
45	ATOM	1255			4.476	61.733	44.805	
73			CA	PRO A 163				1.00 31.84
	MOTA	1256	C	PRO A 163	5.792	61.640	44.040	1.00 31.38
	ATOM	1257	0	PRO A 163	6.821	61.177	44.545	1.00 30.83
	ATOM	1258	CB	PRO A 163	4.545	62.640	46.047	1.00 33.90
	ATOM	1259	CG	PRO A 163	3.818	61.891	47.158	1.00 36.16
50	ATOM	1260	CD	PRO A 163	3.635	60.458	46.680	1.00 29.11
	ATOM	1261	N	LYS A 164		62.040	42.789	1.00 30.95
	MOTA	1262	CA	LYS A 164	6.875	61.950	41.891	1.00 30.90
	MOTA	1263	С	LYS A 164	8.223	62.361	42.405	1.00 32.87
	MOTA	1264	o	LYS A 164	9.249	61.973	41.850	1.00 29.98
55								
55	ATOM	1265	CB	LYS A 164	6.614	62.525	40.525	1.00 38.69
	ATOM	1266	CG	LYS A 164	5.381	63.405	40.464	1.00 60.47
	ATOM	1267	CD	LYS A 164	5.608	64.642	39.612	1.00 87.95
	ATOM	1268	CE	LYS A 164	6.869	64.557	38.757	1.00 94.83
	MOTA	1269	NZ	LYS A 164	7.762	65.712	38.926	1.00100.00
60	MOTA	1270	N	GLU A 165	8.253	63.168	43.445	1.00 32.55
	ATOM	1271	CA	GLU A 165	9.540	63.587	43.946	1.00 33.95
	MOTA	1272	С	GLU A 165	10.107	62.617	44.949	1.00 36.46
	ATOM	1273	0	GLU A 165	11.245	62.742	45.348	1.00 36.58
	MOTA	1274	CB	GLU A 165	9.510	65.006	44.540	1.00 37.35

	ATOM	1275	CG	GLU A		8.599	65.165	45.784	1.00 53.54
	MOTA	1276	CD	GLU A		7.138	65.409	45.480	1.00 77.59
	ATOM	1277	OE1	GLU A	165	6.598	65.114	44.421	1.00 44.13
_	MOTA	1278	OE2	GLU A	165	6.512	65.959	46.494	1.00 78.66
5	ATOM	1279	N	LEU A	166	9.314	61.641	45.318	1.00 33.08
	ATOM	1280	CA	LEU A	166	9.772	60.695	46.299	1.00 33.49
	ATOM	1281	С	LEU A	166	10.068	59.321	45.734	1.00 40.05
	ATOM	1282	0	LEU A	166	9.578	58.987	44.646	1.00 41.96
	ATOM	1283	CB	LEU A		8.727	60.596	47.423	1.00 31.45
10	ATOM	1284	CG	LEU A		8.352	61.938	48.020	1.00 29.81
	ATOM	1285		LEU A		7.242	61.711	49.041	1.00 27.01
	ATOM	1286		LEU A		9.598	62.582	48.632	1.00 21.37
	ATOM	1287	N	VAL A		10.874	58.544	46.500	1.00 30.67
	ATOM	1288	CA	VAL A		11.238	57.178	46.138	1.00 29.31
15	ATOM	1289	C.	VAL A		10.478	56.157	46.996	1.00 35.64
10	MOTA	1290	ŏ	VAL A	_	10.216	56.385	48.183	1.00 33.64
	ATOM	1291	СВ	VAL A		12.721	56.904	46.304	1.00 32.03
	MOTA	1292		VAL A		13.000			
		1293		VAL A			55.483	45.849	1.00 29.30
20	ATOM ATOM	1293		ALA A		13.562	57.880	45.521	1.00 31.04
20			N	ALA A		10.132	55.017	46.400	1.00 33.01
	ATOM	1295	CA			9.453	53.943	47.115	1.00 29.38
	ATOM	1296	C	ALA A		10.289	52.685	46.978	1.00 36.90
	ATOM	1297	0	ALA A		10.786	52.362	45.875	1.00 37.97
25	ATOM	1298	CB	ALA A		8.046	53.694	46.637	1.00 28.00
25	MOTA	1299	N	LEU A		10.482	51.997	48.110	1.00 28.52
	ATOM	1300	CA	LEU A		11.256	50.769	48.139	1.00 24.26
	ATOM	1301	С	LEU A		10.464	49.738	48.879	1.00 27.24
	ATOM	1302	0	LEU A		9.694	50.071	49.786	1.00 25.74
20	ATOM	1303	СВ	LEU A		12.615	50.908	48.841	1.00 24.31
30	ATOM	1304	CG	LEU A		13.525	51.974	48.250	1.00 28.56
	ATOM	1305		LEU A		14.739	52.181	49.173	1.00 27.05
	MOTA	1306		LEU A		13.993	51.550	46.852	1.00 27.25
	ATOM	1307	N	MET A		10.649	48.480	48.486	1.00 26.02
25	MOTA	1308	CA	MET A		9.952	47.392	49.144	1.00 23.03
35	ATOM	1309	C	MET A		10.856	46.224	49.455	1.00 18.57
	ATOM	1310	0	MET A		12.033	46.212	49.085	1.00 20.77
	ATOM	1311	CB	MET A		8.712	46.943	48.371	1.00 24.60
	ATOM	1312	CG	MET A		7.654	47.979	48.535	1.00 25.34
40	ATOM	1313	SD	MET A		6.105	47.419	47.869	1.00 28.58
40	ATOM	1314	CE	MET A		5.380	46.463	49.232	1.00 24.66
	MOTA	1315	N	SER A		10.298	45.244	50.173	1.00 17.78
	ATOM	1316	CA	SER A		11.062	44.069	50.482	1.00 16.80
	ATOM	1317	С	SER A		10.905	43.128	49.265	1.00 26.03
	MOTA	1318	0	SER A		10.389	42.018	49.344	1.00 25.31
45	ATOM	1319	CB	SER A		10.527	43.436	51.748	1.00 17.00
	ATOM	1320	OG	SER A			43.207	51.625	1.00 20.17
	ATOM	1321	N	ALA A		11.298	43.612	48.095	1.00 26.60
	MOTA	1322	CA	ALA A		11.154	42.849	46.875	1.00 25.77
60	ATOM	1323	С	ALA A		12.153	43.339	45.860	1.00 32.28
50	MOTA	1324	0	ALA A		12.897	44.299	46.114	1.00 26.87
	MOTA	1325	CB	ALA A		9.762	43.083	46.332	1.00 25.21
	ATOM	1326	N	ILE A		12.180	42.678	44.700	1.00 30.44
	ATOM	1327	CA	ILE A		13.107	43.110	43.661	1.00 29.54
	ATOM	1328	С	ILE A	173	12.510	44.319	42.959	1.00 30.78
55	ATOM	1329	0	ILE A		11.331	44.315	42.583	1.00 29.32
	ATOM	1330	CB	ILE A		13.479	41.997	42.661	1.00 31.06
	MOTA	1331		ILE A		14.210	40.874	43.388	1.00 28.42
	ATOM	1332	CG2	ILE A	173	14.431	42.563	41.617	1.00 32.58
	ATOM	1333		ILE A		15.604	41.286	43.851	1.00 33.22
60	ATOM	1334	N	ARG A	174	13.328	45.356	42.834	1.00 31.92
	ATOM	1335	CA	ARG A	174	12.906	46.595	42.197	1.00 33.87
	ATOM	1336	С	ARG A	174	12.582	46.236	40.785	1.00 39.44
	ATOM	1337	0	ARG A	174	13.467	45.775	40.091	1.00 34.80
	ATOM	1338	CB	ARG A	174	14.004	47.669	42.218	1.00 35.31

	MOTA	1339	CG	ARG A 17	4 14.1	86 48.368	43.579	1.00 42.88
	ATOM	1340	CD	ARG A 17			43.608	1.00 39.93
	ATOM	1341	NE	ARG A 17			43.013	1.00 59.20
	MOTA	1342	$\mathbf{C}\mathbf{Z}$	ARG A 17			42.407	1.00 92.36
5	ATOM	1343	NH1	ARG A 17			42.284	1.00100.00
	MOTA	1344	NH2	ARG A 17			41.901	1.00 84.94
	ATOM	1345	N	ASP A 17			40.406	1.00 44.29
	ATOM	1346	CA	ASP A 17	5 10.8		39.076	1.00 48.46
	ATOM	1347	С	ASP A 17			38.107	1.00 61.94
10	ATOM	1348	0	ASP A 17			37.124	1.00 69.21
	ATOM	1349	CB	ASP A 17	5 9.4		39.111	1.00 52.28
	ATOM	1350	CG	ASP A 17			38.041	1.00 76.56
	ATOM	1351	OD1	ASP A 17			37.313	1.00 76.21
	ATOM	1352	OD2	ASP A 17			37.964	1.00 85.33
15	ATOM	1353	N	GLY A 17			38.369	1.00 59.49
	ATOM	1354	CA	GLY A 17			37.489	1.00 59.25
	MOTA	1355	С	GLY A 17			38.055	1.00 62.28
	MOTA	1356	0	GLY A 17			39.026	1.00 61.93
	ATOM	1357	N	GLU A 17			37.418	1.00 56.86
20	MOTA	1358	CA	GLU A 17			37.772	1.00 56.20
	ATOM	1359	С	GLU A 17			36.495	1.00 66.31
	ATOM	1360	0	GLU A 17			35.499	1.00 67.90
	ATOM	1361	СВ	GLU A 17			38.645	1.00 55.46
	ATOM	1362	CG	GLU A 17			37.783	1.00 54.29
25	MOTA	1363	CD	GLU A 17			38.534	1.00 73.05
	MOTA	1364	OE1	GLU A 17			38.805	1.00 66.34
	ATOM	1365	OE2				38.817	1.00 54.79
	ATOM	1366	N	THR A 17			36.541	1.00 63.56
	ATOM	1367	CA	THR A 17	8 7.4	96 55.245	35.419	1.00 63.49
30	ATOM	1368	С	THR A 17	8 6.5	34 56.305	35.923	1.00 64.39
	MOTA	1369	0	THR A 17			37.118	1.00 65.55
	ATOM	1370	CB	THR A 17			34.479	1.00 79.55
	ATOM	1371	OG1	THR A 17	8 6.2		33.376	1.00100.00
	ATOM	1372	CG2	THR A 17	8 5.6	17 53.590	35.263	1.00 62.95
35	ATOM	1373	N	PRO A 17	9 5.9	19 57.042	35.013	1.00 56.32
	ATOM	1374	CA	PRO A 17	9 4.9	58 58.025	35.406	1.00 51.92
	ATOM	1375	С	PRO A 17	9 3.5	93 57.388	35.536	1.00 51.24
	MOTA	1376	0	PRO A 17	9 3.1	92 56.586	34.698	1.00 51.46
40	MOTA	1377	CB	PRO A 17	9 4.9	42 59.054	34.282	1.00 53.51
40	ATOM	1378	CG	PRO A 17	9 6.2		33.470	1.00 59.43
	MOTA	1379	CD	PRO A 17			34.060	1.00 56.49
	MOTA	1380	N	ASP A 18			36.614	1.00 44.92
	MOTA	1381	CA	ASP A 18			36.884	1.00 45.28
4.5	ATOM	1382	С	ASP A 18		80 57.912	35.799	1.00 62.22
45	ATOM	1383	0	ASP A 18			35.376	1.00 62.62
	ATOM	1384	CB	ASP A 18	0 1.1	56 57.806	38.255	1.00 43.41
	MOTA	1385	CG	ASP A 18			38.679	1.00 48.40
	MOTA	1386		ASP A 18			37.904	1.00 53.37
50	MOTA	1387		ASP A 18			39.973	1.00 47.57
50	MOTA	1388	N	PRO A 18			35.296	1.00 69.44
	ATOM	1389	CA	PRO A 18			34.234	1.00 72.53
	MOTA	1390	C	PRO A 18			34.587	1.00 82.99
	MOTA	1391	0	PRO A 18			33.717	1.00 84.95
55	ATOM	1392	СВ	PRO A 18			32.987	1.00 74.39
55	MOTA	1393	CG	PRO A 18			33.319	1.00 77.89
	ATOM	1394	CD	PRO A 18			34.810	1.00 71.93
	MOTA	1395	N	GLU A 18			35.887	1.00 83.47
	ATOM	1396	CA	GLU A 18			36.386	1.00 86.24
60	MOTA	1397	С	GLU A 18			36.436	1.00 98.16
60	ATOM	1398	0	GLU A 18			35.460	1.00100.00
	ATOM	1399	CB	GLU A 18			37.726	1.00 87.28
	ATOM	1400	CG	GLU A 18			37.863	1.00 90.17
	ATOM	1401	CD	GLU A 18			36.842	1.00100.00
	ATOM	1402	OE1	GLU A 18	2 -6.2	33 56.882	35.637	1.00100.00

Fried Learning Land

	ATOM	1403	OE2	GLU A	182	-6.718	55.578	37.385	1.00100.00
	MOTA	1404	N	ASP A	183	-4.767	60.640	37.598	1.00 96.59
	MOTA	1405	CA	ASP A	183	-5.124	62.060	37.848	1.00 97.69
	ATOM	1406	С	ASP A	183	-4.078	62.809	38.721	1.00100.00
5	ATOM	1407	0	ASP A	183	-4.439	63.829	39.375	1.00100.00
	ATOM	1408	CB	ASP A	183	-6.477	62.127	38.653	1.00 99.62
	ATOM	1409	CG	ASP A	183	-7.712	61.432	38.090	1.00100.00
	ATOM	1410	OD1	ASP A	183	-8.310	60.544	38.680	1.00100.00
	MOTA	1411	OD2	ASP A	183	-8.091	61.903	36.918	1.00100.00
10	ATOM	1412	N	PRO A	184	-2.797	62.341	38.750	1.00 95.70
	ATOM	1413	CA	PRO A		-1.734	62.796	39.641	1.00 94.16
	ATOM	1414	C	PRO A		-0.516	63.593	39.206	1.00 96.46
	ATOM	1415	0	PRO A		-0.294	63.958	38.050	1.00 99.66
1.00	MOTA	1416	CB	PRO A		-0.980	61.479	39.654	1.00 95.77
15	MOTA	1417	CG	PRO A		-0.835	61.166	38.163	1.00 99.25
	ATOM	1418	CD	PRO A		-2.085	61.763	37.565	1.00 94.91
	MOTA	1419	N	SER A		0.318	63.703	40.258	1.00 86.69
	ATOM	1420	CA	SER A		1.658	64.262	40.362	1.00 82.33
20	ATOM	1421	С	SER A		2.434	63.253	41.219	1.00 77.73
20	ATOM	1422	0	SER A		3.198	63.570	42.144	1.00 79.49
	ATOM	1423	CB	SER A		1.710	65.661	40.921	1.00 85.04
	ATOM	1424	OG	SER A		2.756	66.349	40.263	1.00 97.98
	ATOM	1425	N	ARG A		2.121	61.994	40.856	1.00 62.61
25	ATOM	1426	CA	ARG A		2.591	60.741	41.404	1.00 55.55
23	ATOM ATOM	1427 1428	C O	ARG A		3.444 3.354	59.990 60.216	40.366 39.158	1.00 56.85
	ATOM	1429	СВ	ARG A		1.388	59.859	41.742	1.00 56.42 1.00 41.52
	ATOM	1430	CG	ARG A		0.432	60.389	42.805	1.00 41.32
	ATOM	1431	CD	ARG A		0.602	59.683	44.153	1.00 32.21
30	ATOM	1432	NE	ARG A		-0.519	59.935	45.043	1.00 79.86
-	ATOM	1433	CZ	ARG A		-0.467	60.731	46.113	1.00100.00
	ATOM	1434		ARG A		0.659	61.360	46.468	1.00100.00
	ATOM	1435		ARG A		-1.566	60.880	46.860	1.00100.00
	ATOM	1436	N	LYS A		4.273	59.078	40.867	1.00 47.78
35	ATOM	1437	CA	LYS A	187	5.164	58.231	40.095	1.00 44.24
	ATOM	1438	С	LYS A	187	4.856	56.802	40.532	1.00 50.17
	ATOM	1439	0	LYS A	187	4.464	56.573	41.684	1.00 49.60
	ATOM	1440	CB	LYS A	187	6.604	58.608	40.417	1.00 45.31
40	ATOM	1441	CG	LYS A		7.703	57.832	39.706	1.00 37.40
40	ATOM	1442	CD	LYS A		9.099	58.045	40.318	1.00 37.61
	MOTA	1443	CE	LYS A		9.919	59.196	39.732	1.00 27.19
	ATOM	1444	NZ	LYS A		11.371	59.057	39.898	1.00 40.78
	ATOM	1445	N	ILE A		5.006	55.832	39.620	1.00 46.34
15	ATOM	1446	CA	ILE A		4.732	54.438	39.963	1.00 43.89
45	ATOM	1447	C	ILE A		5.884	53.438	40.044	1.00 45.27
	ATOM ATOM	1448	O	ILE A		6.596	53.147	39.068	1.00 42.03
		1449 1450	CB CG1	ILE A		3.357 3.571	53.861	39.782	1.00 46.49
	ATOM ATOM	1450		ILE A		2.528	52.427 54.603	39.378 38.744	1.00 46.61 1.00 45.69
50	ATOM	1452		ILE A		2.888	51.492	40.354	1.00 45.69
50	ATOM	1453	N N	TYR A		6.055	52.933	41.277	1.00 39.79
	ATOM	1454	CA	TYR A		7.108	52.024	41.630	1.00 36.01
	ATOM	1455	C	TYR A		6.634	50.615	41.665	1.00 36.02
	ATOM	1456	ō	TYR A		5.632	50.291	42.321	1.00 36.41
55	ATOM	1457	СВ	TYR A		7.766	52.446	42.952	1.00 37.07
	ATOM	1458	CG	TYR A		8.644	53.677	42.783	1.00 36.77
	ATOM	1459		TYR A		9.904	53.567	42.197	1.00 39.01
	ATOM	1460		TYR A		8.216	54.942	43.193	1.00 34.62
	ATOM	1461		TYR A		10.733	54.675	42.029	1.00 41.28
60	ATOM	1462	CE2			9.023	56.067	43.031	1.00 33.53
	MOTA	1463	CZ	TYR A		10.279	55.927	42.441	1.00 44.38
	ATOM	1464	OH	TYR A		11.084	57.022	42.277	1.00 44.92
	ATOM	1465	N	LYS A	190	7.395	49.801	40.929	1.00 35.47
	ATOM	1466	CA	LYS A		7.125	48.373	40.772	1.00 36.67

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	ATOM	1467	С	LYS A	190	8.131	47.441	41.475	1.00 32.16
	ATOM	1468	0	LYS A	190	9.337	47.667	41.471	1.00 30.99
	MOTA	1469	CB	LYS A	190	6.872	47.992	39.310	1.00 39.45
_	MOTA	1470	CG	LYS A		5.457	48.328	38.833	1.00 44.38
5	ATOM	1471	CD	LYS A		5.417	49.126	37.539	1.00 56.65
	MOTA	1472	CE	LYS A		5.539	48.274	36.282	1.00 73.04
	ATOM	1473	NZ	LYS A		6.686	48.658	35.433	1.00 92.77
	ATOM	1474	N	PHE A		7.592	46.380	42.076	1.00 27.93
10	ATOM	1475	CA	PHE A		8.393	45.421	42.812	1.00 25.63
10	ATOM	1476	C	PHE A		7.916	43.986	42.679	1.00 25.33
	ATOM ATOM	1477 1478	O CB	PHE A		6.708 8.281	43.667 45.779	42.633	1.00 24.55
	ATOM	1479	CG	PHE A		8.548	47.238	44.306 44.618	1.00 27.49 1.00 26.47
	ATOM	1480		PHE A		9.838	47.668	44.922	1.00 20.47
15	ATOM	1481		PHE A		7.508	48.167	44.619	1.00 27.21
	ATOM	1482		PHE A		10.086	49.004	45.223	1.00 28.50
	ATOM	1483		PHE A		7.739	49.510	44.909	1.00 29.86
	ATOM	1484	CZ	PHE A		9.038	49.923	45.205	1.00 28.47
•	ATOM	1485	N	ILE A		8.868	43.076	42.700	1.00 26.53
20	ATOM	1486	CA	ILE A		8.485	41.669	42.616	1.00 30.09
	ATOM	1487	С	ILE A		9.228	40.779	43.609	1.00 26.87
	ATOM	1488	0	ILE A	192	10.446	40.810	43.711	1.00 23.15
	ATOM	1489	CB	ILE A	192	8.661	41.088	41.208	1.00 36.97
	ATOM	1490	CG1	ILE A	192	10.132	40.970	40.936	1.00 39.49
25	ATOM	1491	CG2	ILE A	192	8.036	41.938	40.104	1.00 38.69
	ATOM	1492	CD1	ILE A		10.620	39.563	41.245	1.00 73.45
	MOTA	1493	N	GLN A		8.481	39.967	44.331	1.00 25.43
	ATOM	1494	CA	GLN A		9.095	39.055	45.295	1.00 24.94
30	ATOM	1495	С	GLN A		8.684	37.626	44.993	1.00 25.94
30	ATOM	1496	0	GLN A		7.590	37.181	45.376	1.00 25.03
	ATOM ATOM	1497 1498	CB CG	GLN A		8.808	39.412	46.772	1.00 24.11
	ATOM	1499	CD	GLN A		9.426 10.947	38.422 38.402	47.782 47.777	1.00 17.67 1.00 23.92
	ATOM	1500		GLN A		11.568	37.485	47.248	1.00 23.92
35	ATOM	1501		GLN A		11.568	39.376	48.394	1.00 21.35
	ATOM	1502	N	LYS A		9.611	36.945	44.296	1.00 24.59
	ATOM	1503	CA	LYS A		9.486	35.548	43.842	1.00 26.30
	ATOM	1504	С	LYS A		9.677	34.457	44.943	1.00 33.55
	ATOM	1505	0	LYS A	194	9.254	33.305	44.759	1.00 33.23
40	MOTA	1506	CB	LYS A	194	10.379	35.289	42.612	1.00 26.74
	ATOM	1507	CG	LYS A	194	9.722	35.609	41.258	1.00 39.96
	ATOM	1508	CD	LYS A		10.697	36.137	40.199	1.00 47.00
	ATOM	1509	CE	LYS A		10.182	36.110	38.751	1.00 59.13
A E	ATOM	1510	NZ	LYS A		11.226	35.798	37.746	1.00 54.07
45	ATOM	1511	N	VAL A		10.332			1.00 25.61
	ATOM	1512	CA	VAL A		10.542	33.829	47.155	1.00 23.02
	ATOM ATOM	1513 1514	C	VAL A		9.385	33.947	48.108	1.00 27.87
	ATOM	1514	O CB	VAL A		9.099	35.029	48.566	1.00 29.77 1.00 22.42
50	ATOM	1516		VAL A		11.833 11.997	34.049 32.891	47.930 48.881	1.00 22.42
50	ATOM	1517		VAL A		13.057	34.101	47.027	1.00 22.03
	ATOM	1518	N	PRO A		8.687	32.867	48.391	1.00 24.28
	ATOM	1519	CA	PRO A		7.572	32.955	49.297	1.00 24.20
	ATOM	1520	C	PRO A		8.042	33.362	50.704	1.00 27.58
55	ATOM	1521	Ō	PRO A		9.027	32.837	51.244	1.00 25.38
	ATOM	1522	CB	PRO A		6.886	31.588	49.301	1.00 24.52
	ATOM	1523	CG	PRO A	196	7.686	30.674	48.397	1.00 28.81
	MOTA	1524	CD	PRO A		8.822	31.497	47.831	1.00 24.64
	MOTA	1525	N	ILE A	197	7.339	34.328	51.287	1.00 22.20
60	ATOM	1526	CA	ILE A		7.713	34.810	52.578	1.00 19.62
	MOTA	1527	С	ILE A		6.498	35.005	53.418	1.00 24.85
	ATOM	1528	0	ILE A		5.391	35.163	52.919	1.00 20.49
	ATOM	1529	CB	ILE A		8.307	36.176	52.383	1.00 21.90
	ATOM	1530	CG1	ILE A	197	7.317	36.930	51.510	1.00 23.26



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APPLICATION NUMBER: 60/122,110

FILING DATE: February 26, 1999

## PRIORITY DOCUMENT

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P. SWAIN

Certifying Officer

PART (2) OF (2) PART(S)

ATOM	1290	0			167	9.902	56.532	47.879	1.00 40.91
ATOM	1291	CB	VAL	Α	167	12.549	56.860	46.048	1.00 31.28
ATOM	1292	CG1	VAL	Α	167	12.854	55.542	45.329	1.00 28.20
MOTA	1293	CG2	VAL	A	167	13.456	57.964	45.565	1.00 31.06
MOTA	1294	N	ALA	Α	168	10.217	55.019	46.257	1.00 36.46
ATOM	1295	CA	ALA			9.584	53.935	46.979	1.00 35.14
MOTA	1296	C	ALA			10.418	52.662	46.836	1.00 43.27
ATOM	1297	0	ALA						
						10.889	52.343	45.733	1.00 44.74
MOTA	1298	CB	ALA			8.149	53.700	46.550	1.00 34.20
ATOM	1299	N	LEU			10.603	51.960	47.975	1.00 35.27
MOTA	1300	CA	LEU			11.323	50.696	48.069	1.00 29.39
MOTA	1301	C	LEU			10.491	49.635	48.797	1.00 33.87
ATOM	1302	0	LEU	Α	169	9.604	49.918	49.613	1.00 31.21
MOTA	1303	CB	LEU	A	169	12.721	50.835	48.656	1.00 28.62
MOTA	1304	CG	LEU	Α	169	13.593	51.810	47.891	1.00 35.90
ATOM	1305	CD1	LEU	Α	169	14.953	51.819	48.558	1.00 39.38
ATOM	1306	CD2	LEU	Α	169	13.765	51.394	46.432	1.00 37.35
ATOM	1307	N	MET			10.758	48.381	48.479	1.00 34.23
ATOM	1308	CA	MET			10.012	47.291	49.069	1.00 31.07
ATOM	1309	C	MET			10.874	46.083	49.287	1.00 34.13
							45.973	_	
MOTA	1310	0	MET			11.995		48.775	1.00 35.20
ATOM	1311	CB	MET			8.842	46.882	48.154	1.00 31.95
ATOM	1312	CG	MET			7.751	47.934	48.116	1.00 33.13
MOTA	1313	SD	MET			6.105	47.253	47.815	1.00 34.54
MOTA	1314	CE	MET			5.820	46.349	49.363	1.00 32.25
ATOM	1315	N	SER			10.332	45.165	50.057	1.00 28.20
ATOM	1316	CA	SER	Α	171	11.064	43.953	50.297	1.00 28.47
MOTA	1317	C	SER	A	171	10.929	43.054	49.049	1.00 32.01
ATOM	1318	0	SER	Α	171	10.396	41.958	49.089	1.00 30.93
ATOM	1319	CB	SER	Α	171	10.662	43.265	51.606	1.00 30.93
ATOM	1320	OG	SER	Α	171	9.297	42.920	51.581	1.00 32.90
ATOM	1321	N	ALA			11.401	43.543	47.912	1.00 28.84
ATOM	1322	CA	ALA			11.286	42.773	46.691	1.00 29.48
ATOM	1323	C	ALA			12.241	43.258	45.644	1.00 37.63
MOTA	1324	0	ALA			13.060	44.147	45.881	1.00 35.07
ATOM	1325	CB	ALA			9.884	42.969	46.120	1.00 29.48
ATOM	1326	N	ILE			12.104	42.686	44.452	1.00 39.49
ATOM	1327	CA	ILE			12.966	43.120	43.382	1.00 38.64
ATOM	1328	C	ILE			12.418	44.343	42.648	1.00 44.83
MOTA	1329	0	ILE			11.269	44.394	42.193	1.00 40.97
		CB	ILE			13.549	42.027	42.479	1.00 38.79
ATOM	1330							43.302	
ATOM	1331	CG1	ILB			14.258	40.970		1.00 37.40
ATOM	1332	CG2	ILE			14.606	42.621	41.570	1.00 38.88
ATOM	1333		ILE			15.770	41.069	43.193	1.00 25.93
ATOM		N					45.345		
ATOM	1335	CA	ARG			12.997	46.567	41.917	1.00 42.34
MOTA	1336	С	ARG			12.630	46.173	40.516	1.00 47.54
ATOM	1337	0	ARG			13.478	45.667	39.770	1.00 42.08
MOTA	1338	CB	ARG			14.254	47.422	41.937	1.00 42.47
ATOM	1339	CG	ARG	Α	174	14.231	48.450	43.075	1.00 53.40
ATOM	1340	CD	ARG	A	174	15.617	48.917	43.515	1.00 33.80
MOTA	1341	NE	ARG	A	174	16.036	50.083	42.756	1.00 53.32
MOTA	1342	CZ	ARG			17.221	50.208	42.181	1.00 97.11
MOTA	1343		ARG			18.132	49.243	42.266	1.00100.00
MOTA	1344		ARG			17.503	51.321	41.489	1.00100.00
ATOM	1345	N	ASP			11.356	46.356	40.195	1.00 51.12
ATOM	1346	CA	ASP			10.858	45.981	38.882	1.00 53.89
ATOM	1347	C	ASP			10.778	47.128	37.885	1.00 58.32
MOTA	1347	0	ASP			10.778	46.901	36.727	1.00 56.00
ATOM	1349	CB CG	ASP			9.533	45.186	38.948	1.00 57.16
ATOM	1350	CG	ASP	^	1/3	9.196	44.446	37.675	1.00 81.25

MOTA	1351	OD1	ASP A	175	10.034	44.118	36.851	1.00 83.53
ATOM	1352	OD2			7.910	44.176	37.558	1.00 92.45
ATOM	1353	N	GLY A		11.062	48.356	38.331	1.00 58.24
ATOM	1354	CA	GLY A		11.002	49.498	37.438	
							_	1.00 57.71
ATOM	1355	C	GLY A		9.969	50.546	37.773	1.00 58.98
ATOM	1356	0	GLY A		9.090	50.371	38.620	1.00 52.04
MOTA	1357	N	GLU A		10.110	51.649	37.050	1.00 63.72
ATOM	1358	CA	GLU A	177	9.267	52.812	37.172	1.00 67.79
MOTA	1359	С	GLU A	177	8.874	53.388	35.817	1.00 86.22
ATOM	1360	0	GLU A	177	9.614	53.364	34.830	1.00 91.14
ATOM	1361	CB	GLU A	177	9.986	53.902	38.006	1.00 68.25
ATOM	1362	CG	GLU A		11.432	54.145	37.519	1.00 71.58
ATOM	1363	CD	GLU A		12.183	55.088	38.404	1.00 85.08
ATOM	1364	OE1			13.045	54.733	39.198	1.00100.00
ATOM	1365	OE2	GLU A		11.765	56.316	38.264	1.00100.00
MOTA		N	THR A		7.671			
	1366					53.924	35.835	1.00 84.76
ATOM	1367	CA	THR A		6.684	54.686	35.042	1.00 84.81
ATOM	1368	С	THR A		6.024	55.810	35.855	1.00 90.37
ATOM	1369	0	THR A		5.664	55.655	36.996	1.00 91.10
MOTA	1370	CB	THR A	178	5.618	53.713	34.561	1.00 89.82
MOTA	1371	OG1	THR A	178	5.283	52.830	35.636	1.00 80.25
ATOM	1372	CG2	THR A	178	6.161	52.898	33.396	1.00 93.46
ATOM	1373	N	PRO A	179	5.921	56.984	35.217	1.00 87.05
ATOM	1374	CA	PRO A	179	5.365	58.187	35.845	1.00 86.61
ATOM	1375	C	PRO A		3.857	58.419	35.531	1.00 89.04
ATOM	1376	0	PRO A		3.444	59.516	35.140	1.00 91.15
ATOM	1377	CB	PRO A		6.176	59.345	35.301	1.00 88.63
ATOM	1378	CG	PRO A		6.657	58.947	33.895	1.00 92.62
ATOM	1379	CD	PRO A		6.426	57.345	33.902	1.00 92.62
							35.694	
ATOM	1380	N	ASP A		3.020	57.347		1.00 82.31
ATOM	1381	CA	ASP A		1.616	57.568	35.310	1.00 81.19
ATOM	1382	C	ASP A		0.629	56.743	36.166	1.00 90.72
ATOM	1383	0	ASP A		0.533	55.519	36.072	1.00 91.13
ATOM	1384	CB	ASP A		1.458	57.196	33.827	1.00 82.12
ATOM	1385	CG	ASP A		0.087	57.651	33.327	1.00 95.94
ATOM	1386	OD1	ASP A	180	-0.155	58.858	33.337	1.00100.00
ATOM	1387	OD2	ASP A	180	-0.714	56.801	32.946	1.00 94.36
ATOM	1388	N	PRO A	181	-0.060	57.456	37.086	1.00 92.45
ATOM	1389	CA	PRO A	181	-1.212	56.934	37.795	1.00 92.02
ATOM	1390	С	PRO A	181	-2.519	57.566	37.284	1.00100.00
ATOM	1391	0	PRO A	181	-2.605	58.114	36.192	1.00100.00
ATOM	1392	CB	PRO A		-1.014	57.340	39.210	1.00 92.48
MOTA	1393	CG	PRO A	181	-0.362	58.734	39.152	1.00 98.39
ATOM	1394	CD	PRO A		0.268	58.736	37.663	
ATOM	1395	N	GLU A		-3.567	57.456	38.141	1.00100.00
ATOM	1396	CA	GLU A		-4.822	58.161	37.876	1.00 98.21
ATOM	1397	C	GLU A		-5.359	58.856	39.154	1.00100.00
ATOM	1398	0	GLU A		-6.404	59.497	39.154	1.00100.00
ATOM	1399	CB	GLU A		-5.854	57.142	37.356	1.00 98.57
MOTA	1400	CG	GLU A		-5.880	57.077	35.816	1.00100.00
ATOM	1401	CD	GLU A		-7.013	57.938	35.300	1.00100.00
ATOM	1402		GLU A		-7.817	58.385	36.105	1.00100.00
MOTA	1403		GLU A		-7.084	58.153	34.091	1.00100.00
MOTA	1404	N	ASP A		-4.607	58.672	40.265	1.00 98.63
ATOM	1405	CA	ASP A		-5.021	59.257	41.552	1.00 97.49
MOTA	1406	C	ASP A	183	-4.126	60.472	41.932	1.00100.00
MOTA	1407	0	ASP A	183	-3.464	61.061	41.079	1.00100.00
ATOM	1408	CB	ASP A		-4.946	58.144	42.619	1.00 98.36
ATOM	1409	CG	ASP A		-3.612	57.409	42.547	1.00100.00
ATOM	1410		ASP A		-3.471	56.556	41.668	1.00100.00
ATOM	1411		ASP A		-2.741	57.688	43.364	1.00100.00
			A		/-I		-0.002	

ATOM	1412	N			184	-4.187	60.906	43.237	1.00 97.96
ATOM	1413	CA			184	-3.311	61.985	43.738	1.00 97.92
MOTA	1414	С	PRO	A	184	-1.865	61.528	44.071	1.00 97.89
MOTA	1415	0	PRO	A	184	-1.348	61.748	45.159	1.00100.00
ATOM	1416	CB			184	-3.973	62.561	44.992	1.00 98.86
MOTA	1417	CG	PRO	A	184	-5.262	61.777	45.284	1.00100.00
ATOM	1418	CD	PRO	Α	184	-5.122	60.532	44.284	1.00 97.20
MOTA	1419	N	SER	A	185	-1.249	60.840	43.071	1.00 82.40
ATOM	1420	CA	SER	Α	185	0.196	60.496	43.086	1.00 75.26
ATOM	1421	С	SER	A	185	0.748	60.563	41.623	1.00 71.84
ATOM	1422	0	SER	A	185	-0.006	60.525	40.670	1.00 77.97
MOTA	1423	CB	SER	Α	185	0.337	59.068	43.636	1.00 73.41
ATOM	1424	OG	SER			0.672	59.109	45.027	1.00 63.60
MOTA	1425	N	ARG	Α	186	2.107	60.704	41.461	1.00 57.89
MOTA	1426	CA	ARG			2.650	60.971	40.088	1.00 56.00
MOTA	1427	C	ARG			3.725	59.943	39.633	1.00 59.64
ATOM	1428	0	ARG			4.473	60.157	38.688	1.00 60.30
ATOM	1429	СВ	ARG			3.258	62.393	40.064	1.00 63.74
MOTA	1430	CG	ARG			2.339	63.457	40.677	1.00 80.44
ATOM	1431	CD	ARG			1.188	63.874	39.736	1.00 71.31
ATOM	1432	NE	ARG			1.316	63.215	38.436	1.00 79.64
ATOM	1433	CZ	ARG			0.185	62.862	37.784	1.00 75.34
MOTA	1434		ARG			-0.999	63.109	38.312	1.00 56.25
ATOM	1435	NH2				0.276	62.232	36.603	1.00 38.23
ATOM	1436	N	LYS			3.892	58.778	40.265	1.00 54.50
ATOM	1437	CA	LYS			4.891	57.805	39.851	1.00 51.93
MOTA	1438	C	LYS			4.506	56.436	40.276	1.00 52.96
ATOM	1439	ō	LYS			3.971	56.236	41.368	1.00 53.58
ATOM	1440	CB	LYS			6.247	58.047	40.470	1.00 53.38
ATOM	1441	CG	LYS			7.427	57.714	39.574	1.00 43.05
ATOM	1442	CD	LYS			8.517	58.761	39.762	1.00 43.05
ATOM	1443	CE	LYS			9.870	58.468	39.146	1.00 33.30
ATOM	1444	NZ	LYS			10.795	59.601	39.341	1.00 39.88
ATOM	1445	N	ILE			4.819	55.502	39.403	1.00 46.36
ATOM	1446	CA	ILE			4.565	54.128	39.700	1.00 43.57
MOTA	1447	C	ILE			5.824	53.311	39.851	1.00 43.57
ATOM	1448	ō	ILE			6.647	53.189	38.937	1.00 42.54
ATOM	1449	CB	ILE			3.579	53.425	38.826	1.00 45.64
ATOM	1450	CG1	ILE			2.193	54.021	39.047	1.00 45.82
MOTA	1451	CG2	ILE			3.590	51.969	39.273	1.00 43.82
MOTA	1452	CD1	ILE			1.448	53.505	40.276	1.00 62.08
ATOM	1453	N	TYR			5.950	52.757	41.042	1.00 35.58
ATOM	1454	CA	TYR			7.079	51.933	41.356	1.00 37.57
ATOM	1455	C .	TYR			6.652	50.465	41.359	1.00 44.89
MOTA	1456	ō	TYR			5.656			1.00 44.33
ATOM	1457	CB	TYR			7.752	52.392	42.661	1.00 37.85
ATOM	1458	CG	TYR			8.692	53.563	42.456	1.00 37.83
ATOM	1459		TYR			9.968	53.375	41.930	1.00 35.93
ATOM	1460	CD2				8.310	54.859	42.813	1.00 32.44
ATOM	1461		TYR			10.843	54.449	41.753	1.00 32.44
ATOM	1462	CE2	TYR			9.170	55.945	42.647	1.00 30.63
ATOM	1463	CZ	TYR			10.441	55.734	42.113	1.00 31.03
ATOM	1464	OH	TYR			11.296	56.788	41.929	1.00 57.77
MOTA	1465	N	LYS			7.413	49.651	40.608	1.00 37.77
ATOM	1466	CA	LYS			7.173	48.210	40.420	1.00 42.31
ATOM	1467	C	LYS			8.152	47.262	41.143	1.00 42.22
ATOM	1468	0	LYS			9.398	47.400	41.143	1.00 40.73
MOTA	1469	CB	LYS			7.007	47.839	38.944	1.00 35.89
ATOM	1470	CG	LYS			5.735	48.403	38.306	1.00 45.87
ATOM	1471	CD	LYS .			5.758	48.403	36.779	1.00 /1.08
ATOM	1472	CE	LYS			4.386	48.157	36.779	1.00100.00
	11/4			^	170	7.300	40.737	20.141	1.00100.00

MOTA	1473	NZ	TVC	70	190	4.299	46.930	35.329	1.00100.00
ATOM	1474	N			191	7.539	46.264	41.812	1.00 35.01
MOTA	1475	CA			191	8.276	45.304	42.592	1.00 31.57
MOTA	1476	C	PHE	A	191	7.792	43.871	42.465	1.00 30.89
ATOM	1477	0	PHE	Α	191	6.603	43.584	42.377	1.00 25.06
ATOM	1478	CB	PHE	Α	191	8.217	45.734	44.080	1.00 32.11
ATOM	1479	CG			191	8.570	47.190	44.372	1.00 29.24
ATOM	1480		PHE			9.895	47.593	44.539	1.00 31.81
ATOM	1481		PHE			7.565	48.147	44.508	1.00 30.17
ATOM	1482		PHE			10.230	48.925	44.805	1.00 34.10
ATOM	1483	CE2	PHE			7.866	49.483	44.776	1.00 33.69
ATOM	1484	CZ	PHE	Α	191	9.201	49.860	44.928	1.00 33.32
ATOM	1485	N	ILE	Α	192	8.764	42.961	42.505	1.00 35.75
ATOM	1486	CA	ILE	Α	192	8.525	41.520	42.415	1.00 37.02
ATOM	1487	C			192	9.255	40.653	43.469	1.00 33.05
ATOM	1488	ō			192	10.489	40.672	43.593	1.00 30.73
ATOM	1489	СВ			192	8.850	40.970	41.025	1.00 42.45
ATOM	1490	CG1				8.289	41.914	39.981	1.00 46.39
MOTA	1491	CG2	ILE			8.251	39.567	40.859	1.00 44.02
MOTA	1492		ILE			7.609	41.231	38.798	1.00 69.61
MOTA	1493	N	GLN			8.459	39.864	44.195	1.00 27.51
MOTA	1494	CA	GFM	A	193	8.954	38.908	45.177	1.00 32.05
ATOM	1495	C	GLN	Α	193	8.626	37.488	44.757	1.00 44.32
MOTA	1496	0	GLN	A	193	7.583	36.926	45.120	1.00 43.11
ATOM	1497	CB	GLN	Α	193	8.502	39.100	46.638	1.00 33.44
MOTA	1498	CG	GLN	Α	193	9.285	38.203	47.632	1.00 22.34
MOTA	1499	CD	GLN	A	193	10.824	38.337	47.636	1.00 48.52
MOTA	1500	OE1	GLN			11.557	37.537	47.016	1.00 45.24
ATOM	1501	NE2	GLN			11.326	39.330	48.373	1.00 24.82
MOTA	1502	N	LYS			9.543	36.908	43.993	1.00 46.91
	1502	CA	LYS			9.384	35.540	43.529	1.00 47.56
ATOM									
MOTA	1504	C	LYS			9.456	34.524	44.666	1.00 49.56
ATOM	1505	0	LYS			8.777	33.520	44.598	1.00 50.85
MOTA	1506	CB	LYS			10.385	35.159	42.439	1.00 48.11
ATOM	1507	CG	LYS			9.884	35.443	41.031	1.00 55.70
MOTA	1508	CD	LYS			10.895	36.200	40.179	1.00 67.67
MOTA	1509	CE	LYS	A	194	10.614	36.122	38.682	1.00 81.92
MOTA	1510	NZ	LYS	Α	194	11.284	37.185	37.910	1.00 88.34
ATOM	1511	N	VAL	A	195	10.308	34.753	45.689	1.00 39.55
ATOM	1512	CA	VAL	Α	195	10.422	33.780	46.764	1.00 33.56
ATOM	1513	C	VAL	Α	195	9.261	33.862	47.698	1.00 35.67
ATOM	1514	0	VAL	A	195	8.804	34.945	48.034	1.00 38.69
ATOM	1515	CB	VAL	Α	195	11.716	33.844	47.560	1.00 32.62
ATOM	1516	CG1	VAL			11.849	32.539	48.310	1.00 32.40
ATOM	1517		VAL			12.933	34.029	46.667	1.00 30.55
ATOM	1518	N	PRO			8.770	32.717	48.126	1.00 27.75
ATOM	1519	CA	PRO			7.653	32.757	49.038	1.00 26.18
	1520	C	PRO			8.132	33.236	50.410	1.00 35.86
ATOM						9.185	32.809	50.899	1.00 35.43
ATOM	1521	0	PRO						
ATOM	1522	CB	PRO			7.022	31.359	49.044	1.00 26.04
ATOM	1523	CG	PRO			7.856	30.472	48.113	1.00 27.79
ATOM	1524	CD	PRO			8.964	31.352	47.546	1.00 25.40
ATOM	1525	N	ILE			7.388	34.171	51.009	1.00 29.92
MOTA	1526	CA	ILE			7.772	34.697	52.284	1.00 26.98
MOTA	1527	C	ILE			6.544	34.809	53.128	1.00 34.88
MOTA	1528	0	ILE	A	197	5.444	34.788	52.606	1.00 29.68
ATOM	1529	CB	ILE	A	197	8.334	36.100	52.094	1.00 27.90
MOTA	1530	CG1	ILE	A	197	7.342	36.867	51.254	1.00 27.78
ATOM	1531	CG2	ILE			9.659	36.091	51.337	1.00 28.12
ATOM	1532		ILE			7.494	38.378	51.438	1.00 19.03
ATOM	1533	N	PRO			6.743	34.936	54.447	1.00 36.02
		-		-		<del></del>			

MOTA	1534	CA	PRO	A	198	5.647	35.110	55.410	1.00 31.31
ATOM	1535	С	PRO	A	198	5.299	36.583	55.308	1.00 28.27
ATOM	1536	0	PRO	Α	198	6.212	37.391	55.115	1.00 22.70
ATOM	1537	CB	PRO	Α	198	6.252	34.849	56.794	1.00 31.17
ATOM	1538	CG	PRO	Α	198	7.768	34.768	56.615	1.00 34.94
ATOM	1539	CD			198	8.057	34.706	55.122	1.00 32.99
ATOM	1540	N			199	4.011	36.939	55.405	1.00 27.60
MOTA	1541	CA			199	3.555	38.360	55.289	1.00 27.66
ATOM	1542	C			199	4.255	39.390	56.187	1.00 30.13
MOTA	1543	0			199	4.294	40.596	55.895	1.00 29.50
MOTA	1544	CB			199	2.025	38.534	55.242	1.00 27.18
MOTA	1545	SG	CYS			1.232	38.279	56.841	1.00 30.85
ATOM	1546	N	TYR			4.847	38.903	57.270	1.00 26.15
ATOM	1547	CA	TYR	Ą	200	5.538	39.798	58.123	1.00 28.28
MOTA	1548	С	TYR	A	200	6.760	40.395	57.483	1.00 32.29
MOTA	1549	0	TYR	Α	200	7.359	41.286	58.036	1.00 31.56
ATOM	1550	CB	TYR	A	200	5.844	39.215	59.489	1.00 30.59
ATOM	1551	CG	TYR	Α	200	6.989	38.272	59.568	1.00 28.28
ATOM	1552		TYR			8.288	38.733	59.689	1.00 29.48
ATOM	1553	CD2	TYR			6.756	36.903	59.475	1.00 27.55
ATOM	1554	CE1				9.377	37.862	59.825	1.00 21.42
ATOM	1555	CE2	TYR			7.838	36.015	59.595	1.00 27.41
ATOM	1556	CZ			200	9.144	36.488	59.737	1.00 25.11
		OH			200	10.215		59.880	1.00 27.62
MOTA	1557					7.113	35.614		
ATOM	1558	N	LEU				39.897	56.313	1.00 31.66
MOTA	1559	CA	LEU			8.278	40.378	55.579	1.00 29.49
ATOM	1560	C	LEU			7.914	41.343	54.484	1.00 33.65
ATOM	1561	0	LEU			8.767	41.737	53.686	1.00 35.31
MOTA	1562	СВ	LEU			9.225	39.275	55.035	1.00 27.04
MOTA	1563	CG			201	9.697	38.271	56.071	1.00 27.42
ATOM	1564	CD1	LEU	Α	201	10.254	37.030	55.390	1.00 23.71
ATOM	1565	CD2	LEU	A	201	10.764	38.913	56.957	1.00 30.55
ATOM	1566	N	ILE	Α	202	6.648	41.710	54.438	1.00 28.66
ATOM	1567	CA	ILE	A	202	6.249	42.674	53.433	1.00 29.57
MOTA	1568	C	ILE	Α	202	6.636	44.074	53.951	1.00 40.28
ATOM	1569	0	ILE	Α	202	6.192	44.493	55.027	1.00 40.75
ATOM	1570	CB	ILE	Α	202	4.733	42.651	53.182	1.00 31.18
MOTA	1571	CG1	ILE	Α	202	4.250	41.429	52.405	1.00 28.21
MOTA	1572	CG2	ILE	Α	202	4.259	43.962	52.521	1.00 29.23
MOTA	1573		ILE			2.724	41.288	52.449	1.00 23.01
ATOM	1574	N	ALA			7.445	44.813	53.197	1.00 39.14
ATOM	1575	CA	ALA			7.840	46.150	53.611	1.00 37.03
ATOM	1576	C	ALA			7.819	47.159	52.482	1.00 34.32
ATOM	1577	ō	ALA			8.060	46.836	51.311	1.00 30.63
ATOM	1578	CB	ALA			9.180			
ATOM	1579	N	LEU			7.514	48.388	52.910	1.00 33.64
ATOM	1580	CA	LEU			7.388	49.604	52.102	1.00 32.56
ATOM	1581	C	LEU			7.993	50.817	52.812	1.00 37.69
	1582		LEU			7.854	51.037	54.034	1.00 37.05
MOTA		0							
ATOM.	1583	CB	LEU			5.906	49.929	51.718	1.00 29.74
MOTA	1584	CG	LEU			5.706	51.182	50.855	1.00 29.64
ATOM	1585		LEU			6.263	50.994	49.445	1.00 29.47
ATOM	1586		LEU			4.222	51.515	50.750	1.00 33.50
MOTA	1587	N	VAL			8.670	51.603	51.991	1.00 36.87
ATOM	1588	CA	VAL			9.305	52.821	52.415	1.00 35.15
ATOM	1589	С	VAL			9.224	53.795	51.284	1.00 38.41
MOTA	1590	0	VAL	A	205	9.575	53.462	50.148	1.00 39.50
ATOM	1591	CB	VAL	Α	205	10.769	52.651	52.804	1.00 36.06
MOTA	1592	CG1	VAL	A	205	11.466	51.794	51.757	1.00 35.08
ATOM	1593	CG2	VAL	A	205	11.432	54.020	52.833	1.00 35.98
ATOM	1594	N	VAL	A	206	8.750	54.983	51.623	1.00 33.54

ATOM	1595	CA	VAL	Α	206	8.623	56.104	50.687	1.00 31.81
ATOM	1596	С	VAL	Α	206	9.300	57.343	51.249	1.00 31.62
	1597	0			206		57.722	52.406	1.00 34.81
ATOM						9.076			
MOTA	1598	CB	VAL	Α	206	7.179	56.405	50.305	1.00 33.35
ATOM	1599	CG1	VAL	Α	206	7.129	57.243	49.029	1.00 33.44
ATOM			VAL			6.452			
	1600						55.084	50.109	1.00 31.98
ATOM	1601	N	GLY	Α	207	10.130	57.959	50.431	1.00 24.94
MOTA	1602	CA	GLY	Α	207	10.807	59.168	50.861	1.00 27.25
ATOM	1603	С			207	11.802	59.632	49.838	1.00 38.81
MOTA	1604	0	GLY	Α	207	12.046	58.966	48.840	1.00 39.82
MOTA	1605	N	ALA	А	208	12.375	60.783	50.113	1.00 41.07
MOTA	1606	CA			208	13.370	61.354	49.233	1.00 42.72
ATOM	1607	С	ALA	Α	208	14.660	60.550	49.356	1.00 49.10
ATOM	1608	0	ALA	Α	208	15.651	60.997	49.957	1.00 51.30
MOTA	1609	CB	ALA			13.605	62.810	49.589	1.00 42.95
ATOM	1610	N	LEU	Α	209	14.623	59.350	48.773	1.00 40.92
ATOM	1611	CA	LEU	Α	209	15.739	58.440	48.825	1.00 39.55
		C	LEU					47.743	1.00 47.96
ATOM	1612					16.756	58.575		
MOTA	1613	0	LEU	A	209	16.420	58.843	46.597	1.00 49.44
ATOM	1614	CB	LEU	Α	209	15.269	56.994	48.894	1.00 37.97
ATOM	1615	CG	T.DII	7	209	14.420	56.803	50.129	1.00 40.46
ATOM	1616	CD1	LEU	Α	209	13.713	55.469	50.075	1.00 36.99
ATOM	1617	CD2	LEU	Α	209	15.283	56.921	51.387	1.00 43.31
ATOM	1618	N	GLU	Δ	210	17.999	58.317	48.182	1.00 42.68
ATOM	1619	CA	GLU			19.205	58.311	47.381	1.00 40.30
ATOM	1620	C	GLU	A	210	19.965	57.056	47.693	1.00 47.51
ATOM	1621	0	GLU	Δ	210	19.708	56.432	48.721	1.00 47.89
			GLU						
ATOM	1622	CB				20.084	59.553	47.613	1.00 42.01
ATOM	1623	CG	GLU	Α	210	19.699	60.734	46.697	1.00 58.26
ATOM	1624	CD	GLU	Α	210	20.524	61.970	46.897	1.00100.00
	1625		GLU			21.629	61.968	47.451	1.00 95.26
ATOM									
ATOM	1626	OE2	GLU	A	210	19.935	63.047	46.486	1.00100.00
ATOM	1627	N	SER	Α	211	20.895	56.662	46.805	1.00 45.01
MOTA	1628	CA	SER	Δ	211	21.661	55.442	47.013	1.00 42.25
ATOM	1629	C	SER			23.143	55.535	46.667	1.00 43.37
ATOM	1630	0	SER	Α	211	23.649	56.493	46.086	1.00 46.43
ATOM	1631	CB	SER	Α	211	21.025	54.233	46.346	1.00 44.33
MOTA	1632	OG	SER			21.274	54.244	44.934	1.00 54.15
MOTA	1633	N	ARG	A	212	23.829	54.497	47.053	1.00 34.85
ATOM	1634	CA	ARG	Α	212	25.229	54.328	46.791	1.00 35.41
ATOM	1635	C	ARG	Δ	212	25.430	52.838	46.567	1.00 45.39
			ARG						
MOTA	1636	0				24.840	52.027	47.276	1.00 48.85
ATOM	1637	CB	ARG	Α	212	26.101	54.846	47.915	1.00 37.25
ATOM	1638	CG	ARG	Α	212	27.151	55.827	47.402	1.00 68.10
	1639	CD	ARG			26.532	56.962	46.587	1.00 76.55
ATOM									
ATOM	1640	ΝĒ	ARG			26.695	58.307	47.148	1.00 55.19
ATOM	1641	CZ	ARG	Α	212	25.845	59.301	46.867	1.00 70.87
ATOM	1642	MH1	ARG	Δ	212	24.806	59.105	46.059	1.00 35.71
			ARG						1.00 73.35
ATOM	1643					26.032	60.516	47.392	
ATOM	1644	N	GLN	А	213	26.210	52.442	45.567	1.00 40.74
ATOM	1645	CA	GLN	Α	213	26.408	51.021	45.331	1.00 39.90
ATOM	1646	C	GLN			27.646	50.537	46.050	1.00 46.34
ATOM	1647	0	GLN			28.740	50.981	45.741	1.00 53.77
MOTA	1648	CB	GLN	Α	213	26.545	50.741	43.846	1.00 40.99
ATOM	1649	CG	GLN			26.976	49.296	43.532	1.00 55.79
ATOM	1650	CD	GLN			26.292	48.743	42.301	1.00 76.04
MOTA	1651		GLN			26.275	47.523	42.102	1.00 86.66
ATOM	1652	NE2	GLN	Α	213	25.700	49.618	41.489	1.00 55.45
ATOM	1653	N	ILE			27.495	49.649	47.013	1.00 33.12
ATOM	1654	CA	ILE			28.663	49.206	47.743	1.00 32.55
MOTA	1655	C	ILE	Α	214	28.911	47.765	47.536	1.00 39.29

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ATOM	1656	0	ILE	Α	214	29.726	47.162	48.230	1.00 42.41
ATOM	1657	CB	ILE	Α	214	28.546	49.428	49.250	1.00 35.72
ATOM	1658	CG1	ILE			27.395	48.573	49.791	1.00 36.13
MOTA	1659	CG2	ITE	A	214	28.344	50.911	49.598	1.00 35.79
MOTA	1660	CD1	ILE	Α	214	27.067	48.841	51.260	1.00 46.69
ATOM	1661	N	GI.V	Δ	215	28.199	47.197	46.598	1.00 35.02
MOTA	1662	CA			215	28.638	45.855	46.234	1.00 34.88
MOTA	1663	C	GLY	A	215	27.970	45.405	44.950	1.00 41.09
MOTA	1664	0	GLY	A	215	27.083	46.048	44.425	1.00 44.25
							44.262	44.410	
ATOM	1665	N			216	28.448			1.00 39.62
MOTA	1666	CA	PRO	Α	216	27.890	43.720	43.197	1.00 39.69
MOTA	1667	С	PRO	Α	216	26.369	43.661	43.253	1.00 41.56
MOTA	1668	0	PRO	Δ	216	25.655	43.817	42.240	1.00 44.35
					216		42.311	42.996	1.00 39.91
MOTA	1669	CB				28.448			
ATOM	1670	CG	PRO	A	216	29.377	41.993	44.164	1.00 41.54
MOTA	1671	CD	PRO	Α	216	29.514	43.411	44.897	1.00 37.70
MOTA	1672	N	ARG	А	217	25.846	43.398	44.477	1.00 31.04
ATOM	1673	CA			217	24.421	43.328	44.652	1.00 29.22
ATOM	1674	С	ARG	A	217	23.928	44.109	45.872	1.00 38.24
MOTA	1675	0	ARG	Α	217	22.861	43.885	46.368	1.00 40.69
ATOM	1676	CB	ARG	Α	217	24.012	41.844	44.790	1.00 22.75
			ARG			25.221	40.963	45.109	1.00 40.77
ATOM	1677	CG							
ATOM	1678	CD	ARG	A	217	24.828	39.774	45.985	1.00 34.08
MOTA	1679	NE	ARG	A	217	26.020	39.183	46.581	1.00 45.20
ATOM	1680	CZ	ARG	Α	217	25.955	37.894	46.911	1.00 65.13
ATOM	1681		ARG			24.832	37.220	46.716	1.00 42.40
MOTA	1682	NH2				26.997	37.300	47.472	1.00 48.08
MOTA	1683	N	THR	Α	218	24.784	45.022	46.404	1.00 31.00
MOTA	1684	CA	THR	Α	218	24.309	45.886	47.487	1.00 31.00
ATOM	1685	C			218	24.128	47.319	47.021	1.00 43.60
MOTA	1686	0			218	25.065	47.930	46.512	1.00 48.42
ATOM	1687	CB	THR	A	218	25.315	45.845	48.640	1.00 36.95
MOTA	1688	OG1	THR	Α	218	25.430	44.517	49.139	1.00 45.66
ATOM	1689	CG2	THR	A	218	24.826	46.751	49.766	1.00 34.17
		N			219	23.099	48.018	47.431	1.00 39.19
ATOM	1690								
ATOM	1691	CA	LEU			23.055	49.452	47.315	1.00 38.18
MOTA	1692	С	LEU	A	219	22.713	50.000	48.695	1.00 42.32
MOTA	1693	0	LEU	Α	219	22.108	49.289	49.498	1.00 43.67
ATOM	1694	CB	LEU			21.927	49.841	46.356	1.00 37.05
								45.168	1.00 39.31
ATOM	1695	CG	LEU			22.386	50.657		
MOTA	1696	CD1	LEU	A	219	23.670	50.064	44.613	1.00 40.57
MOTA	1697	CD2	TEU	Α	219	21.283	50.619	44.131	1.00 29.39
MOTA	1698	N	VAL	Α	220	23.066	51.241	48.976	1.00 35.01
ATOM	1699	CA			220	22.741	51.830	50.253	1.00 36.98
ATOM	1700	C			220	21.736	52.923	50.043	1.00 44.08
MOTA	1701	0	VAL	A	220	21.959	53.835	49.256	1.00 46.60
ATOM	1702	CB	VAL	Α	220	23.965	52.346	51.028	1.00 44.95
ATOM	1703		VAL			23.675	52.428	52.516	1.00 43.16
									1.00 47.70
ATOM	1704		VAL			25.138	51.382	50.828	
MOTA	1705	N	TRP	A	221	20.622	52.818	50.731	1.00 41.98
MOTA	1706	CA	TRP	Α	221	19.605	53.828	50.602	1.00 41.64
ATOM	1707	C	TRP	Α	221	19.464	54.612	51.872	1.00 42.40
ATOM	1708	ō			221	19.461	54.060	52.960	1.00 45.56
MOTA	1709	CB			221	18.256	53.245	50.186	1.00 41.24
MOTA	1710	CG	TRP	Α	221	18.353	52.459	48.918	1.00 42.59
ATOM	1711	CD1	TRP	Α	221	18.888	51.225	48.793	1.00 45.35
ATOM	1712		TRP			17.949	52.873	47.590	1.00 41.62
MOTA	1713		TRP			18.826	50.832	47.478	1.00 44.74
MOTA	1714	CE2	TRP			18.243	51.821	46.720	1.00 45.31
ATOM	1715	CE3	TRP	Α	221	17.345	54.009	47.061	1.00 41.17
ATOM	1716		TRP			17.958	51.902	45.346	1.00 42.60

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ATOM	1717	CZ3			221	17.054	54.083	45.710	1.00 39.08
ATOM	1718	CH2	TRP	Α	221	17.360	53.040	44.864	1.00 38.48
MOTA	1719	N	SER	Α	222	19.271	55.896	51.688	1.00 37.01
ATOM	1720	CA	SER	Α	222	19.017	56.846	52.748	1.00 38.05
ATOM	1721	С	SER	Α	222	18.853	58.251	52.205	1.00 45.28
ATOM	1722	ō			222	19.005	58.503	51.008	1.00 44.02
ATOM	1723	СВ			222	20.098	56.816	53.820	1.00 39.07
ATOM	1724	OG			222	21.322	57.149	53.229	1.00 42.36
MOTA	1725	N			223	18.586	59.190	53.088	1.00 40.91
ATOM	1726	CA			223	18.465	60.527	52.584	1.00 41.97
MOTA	1727	С	GLU	A	223	19.843	61.042	52.234	1.00 50.17
ATOM	1728	0	GLU			20.829	60.701	52.863	1.00 52.02
MOTA	1729	CB	GLU	Α	223	17.856	61.483	53.597	1.00 43.06
ATOM	1730	CG	GLU	Α	223	16.364	61.262	53.861	1.00 51.71
ATOM	1731	CD	GLU	Α	223	15.799	62.478	54.545	1.00 84.51
ATOM	1732	OE1	GLU			15.905	63.610	54.085	1.00 56.82
ATOM	1733	OE2	GLU			15.244	62.222	55.705	1.00 88.87
ATOM	1734	N	LYS			19.892	61.875	51.229	1.00 47.39
ATOM	1735	CA	LYS			21.139	62.456	50.792	1.00 48.51
ATOM	1736	C	LYS			22.163	62.683	51.930	1.00 50.90
ATOM	1737	0	LYS			23.382	62.569	51.736	1.00 51.55
ATOM	1738	CB	LYS			20.843	63.736	49.986	1.00 51.58
MOTA	1739	CG	LYS			22.039	64.648	49.723	1.00 81.16
MOTA	1740	CD	LYS			21.954	65.397	48.392	1.00 97.82
MOTA	1741	CE	LYS	A	224	21.646	66.891	48.530	1.00100.00
ATOM	1742	NZ	LYS	Α	224	22.056	67.700	47.362	1.00100.00
MOTA	1743	N	GLU	Α	225	21.683	63.011	53.123	1.00 45.77
MOTA	1744	CA	GLU	Α	225	22.607	63.309	54.199	1.00 46.00
ATOM	1745	C	GLU	A	225	23.227	62.150	54.902	1.00 47.99
ATOM	1746	0	GLU	Α	225	24.107	62.354	55.732	1.00 47.21
ATOM	1747	СВ	GLU			22.057	64.296	55.210	1.00 47.71
ATOM	1748	CG	GLU			20.530	64.296	55.182	1.00 63.24
ATOM	1749	CD	GLU			19.931	65.219	54.150	1.00 75.13
ATOM	1750		GLU			20.187	66.420	54.046	1.00 54.64
MOTA	1751		GLU			19.039	64.578	53.420	1.00 49.64
							60.949	54.564	1.00 43.92
ATOM	1752	N	GLN			22.798			
ATOM	1753	CA	GLN			23.340	59.772	55.224	1.00 43.91
MOTA	1754	C	GLN			24.036	58.756	54.322	1.00 45.86
MOTA	1755	0	GLN			24.756	57.871	54.806	1.00 45.70
MOTA	1756	CB	GLN			22.252	59.084	56.063	1.00 45.27
MOTA	1757	CG	GLN	Α	226	21.965	59.790	57.400	1.00 31.17
ATOM	1758	CD	GLN			21.297	61.155	57.302	1.00 44.48
MOTA	1759	OE1	GLN	Α	226	21.823	62.149	57.820	1.00 37.36
MOTA	1760	NE2	GLM.	A	226	20.115	61.202	56.696	1.00 30.28
ATOM	1761	N	VAL	A	227	23.814	58.871	53.021	1.00 41.20
MOTA	1762	CA	VAL	A	227	24.406	57.947	52.071	1.00 43.13
ATOM	1763	С	VAL	Α	227	25.884	57.670	52.261	1.00 50.55
MOTA	1764	0	VAL	A	227	26.298	56.518	52.480	1.00 53.01
ATOM	1765	CB	VAL	А	227	24.155	58.293	50.604	1.00 49.39
MOTA	1766				227	24.319	57.029	49.771	1.00 48.89
ATOM	1767		VAL			22.752	58.851	50.421	1.00 50.47
MOTA	1768	N	GLU			26.696	58.718	52.170	1.00 44.08
			GLU			28.123	58.542	52.310	1.00 41.71
ATOM	1769	CA							1.00 44.20
MOTA	1770	C	GLU			28.514	57.871	53.583	
ATOM	1771	0	GLU			29.227	56.868	53.589	1.00 44.88
MOTA	1772	CB	GLU			28.935	59.824	52.102	1.00 43.08
ATOM	1773	CG	GLU			29.153	60.161	50.611	1.00 64.74
ATOM	1774	CD	GLU			29.114	58.965	49.701	1.00 84.29
MOTA	1775		GLU			29.975	58.107	49.685	1.00 84.36
ATOM	1776	OE2	GLU			28.064	58.951	48.917	1.00 73.81
MOTA	1777	N	LYS	A	229	28.066	58.423	54.685	1.00 39.79

ATOM	1778	CA	LYS	A	229	28.44				39.04
ATOM	1779	C	LYS	A	229	27.94	9 56.3	75 55.9	30 1.00	40.38
MOTA	1780	0	LYS	A	229	28.63	55.4	33 56.3	46 1.00	43.63
MOTA	1781	CB	LYS	Α	229	28.12	9 58.5	85 57.1	87 1.00	39.79
ATOM	1782	CG	LYS	A	229	28.90	58.0	72 58.3	94 1.00	63.75
ATOM	1783	CD	LYS	A	229	28.49	58.7	63 59.6	85 1.00	77.46
ATOM	1784	CE			229	29.67				94.73
MOTA	1785	NZ			229	30.34				100.00
ATOM	1786	N			230	26.74				28.48
ATOM	1787	CA			230	26.17				25.93
ATOM		C			230	27.08				30.26
	1788									28.48
ATOM	1789	0			230	27.46				
ATOM	1790	CB			230	24.82				30.08
MOTA	1791	OG			230	23.82				41.60
MOTA	1792	N			231	27.43				31.13
ATOM	1793	CA			231	28.28				36.66
ATOM	1794	C			231	29.59				47.68
MOTA	1795	0			231	30.00				54.59
MOTA	1796	CB			231	28.40	5 54.5			38.49
ATOM	1797	N	TYR	A	232	30.25	5 54.2			40.77
MOTA	1798	CA	TYR	Α	232	31.50	53.8	30 54.7	30 1.00	38.40
MOTA	1799	С	TYR	Α	232	31.26	52.7	21 55.7	53 1.00	39.70
ATOM	1800	0	TYR	Α	232	32.04	l 51.7	72 55.8	62 1.00	36.46
MOTA	1801	CB	TYR	A	232	32.31	1 54.9	81 55.4	14 1.00	38.27
MOTA	1802	CG	TYR	Α	232	33.49	7 54.5	25 56.3	03 1.00	42.36
MOTA	1803	CD1	TYR	Α	232	34.75	5 54.2	38 55.7	53 1.00	46.41
ATOM	1804	CD2	TYR	Α	232	33.37	3 54.3	94 57.6	91 1.00	40.99
MOTA	1805	CE1	TYR	Α	232	35.83	5 53.8	15 56.5	34 1.00	47.23
MOTA	1806	CE2	TYR	A	232	34.44	L 53.9	79 58.4	96 1.00	40.10
ATOM	1807	CZ	TYR	A	232	35.68	53.6	95 57.9	16 1.00	48.59
MOTA	1808	OH	TYR	A	232	36.73	53.2	82 58.6	98 1.00	51.92
ATOM	1809	N	GLU	A	233	30.19	1 52.8	83 56.5	19 1.00	35.75
MOTA	1810	CA	GLU	A	233	29.83	5 51.9	84 57.6	06 1.00	34.55
MOTA	1811	C	GLU	A	233	29.63	3 50.4	98 57.2	52 1.00	38.39
MOTA	1812	0	GLU	Α	233	30.15	49.5	76 57.8	92 1.00	38.55
MOTA	1813	CB	GLU	Α	233	28.67	52.6	23 58.4	14 1.00	34.48
ATOM	1814	CG	GLU	A	233	28.66	52.2	62 59.9	12 1.00	24.95
MOTA	1815	CD	GLU	A	233	29.463	53.1	83 60.7	87 1.00	37.55
MOTA	1816	OE1	GLU	A	233	29.40	54.4	10 60.7	41 1.00	55.33
ATOM	1817	OE2	GLU	A	233	30.21	52.5	18 61.6	19 1.00	40.65
MOTA	1818	N	PHE	A	234	28.86	7 50.2	82 56.2	02 1.00	33.02
ATOM	1819	CA	PHE	A	234	28.49	48.9	74 55.7	19 1.00	29.90
ATOM	1820	С			234	29.34			92 1.00	34.69
ATOM	1821	0	PHE	A	234	.28.88	47.5	21 53.8	23 1.00	34.21
ATOM	1822	CB	PHE			27.020			93 1.00	30.23
ATOM	1823	CG	PHE	A	234	26.21	49.7	52 56.3	94 1.00	30.32
ATOM	1824		PHE			26.51				31.50
MOTA	1825		PHE			25.15				28.66
ATOM	1826		PHE			25.78				30.43
ATOM	1827		PHE			24.40				29.60
MOTA	1828	CZ	PHE			24.72				27.47
ATOM	1829	N	SER			30.57				29.55
ATOM	1830	CA	SER			31.42				28.64
MOTA	1831	C	SER			31.38				30.38
ATOM	1832	0	SER			31.16				32.37
ATOM	1833	CB	SER			32.86				31.15
ATOM	1834	OG	SER			33.02				39.32
MOTA	1835	Ŋ	GLU			31.69				22.49
ATOM	1836	CA	GLU			31.81				23.79
MOTA	1837	CA	GLU			30.62				32.37
MOTA	1838	0	GLU			30.62				29.91
ALON	1030	•	CAU	~	~ J J	20.03	/	, 2 24.3	1.00	

MOTA	1839	CB	GLU	A	236	32.305	44.529	56.134	1.00 24.06
MOTA	1840	CG	GLU	Α	236	33.491	45.403	56.585	1.00 22.96
ATOM	1841	CD	GLU			33.600	45.492	58.090	1.00 66.18
-									
MOTA	1842	OE1				32.633	45.482	58.849	1.00 37.01
ATOM	1843	OE2	GLU			34.848	45.518	58.494	1.00 78.68
MOTA	1844	N	THR	A	237	29.560	44.593	53.891	1.00 34.11
ATOM	1845	CA	THR	Α	237	28.384	43.823	53.539	1.00 33.69
ATOM	1846	С	THR	Δ	237	28.644	42.609	52.644	1.00 33.33
	1847	ō	THR			28.517	41.451	53.048	1.00 31.09
MOTA									
ATOM	1848	CB	THR			27.218	44.710	53.057	1.00 37.99
MOTA	1849	OG1	THR	Α	237	26.899	45.675	54.048	1.00 33.49
ATOM	1850	CG2	THR	Α	237	25.995	43.862	52.744	1.00 25.66
ATOM	1851	N	GLU	Α	238	29.020	42.854	51.409	1.00 29.69
ATOM	1852	CA	GLU			29.267	41.734	50.520	1.00 27.05
	1853	C	GLU			30.071	40.638	51.146	1.00 33.17
ATOM									
MOTA	1854	0	GLU			29.660	39.497	51.055	1.00 38.50
ATOM	1855	CB	GLU	A	238	29.851	42.080	49.161	1.00 27.50
ATOM	1856	CG	GLU	Α	238	30.116	40.813	48.320	1.00 18.83
ATOM	1857	CD	GLU	Α	238	28.902	40.297	47.596	1.00 41.67
ATOM	1858	OE1				27.848	40.909	47.464	1.00 33.59
ATOM	1859	OE2	GLU			29.085	39.089	47.138	1.00 46.30
ATOM	1860	N	SER			31.203	40.973	51.772	1.00 24.44
MOTA	1861	CA	SER			32.045	39.957	52.387	1.00 24.60
ATOM	1862	С	SER	A.	239	31.245	39.060	53.344	1.00 35.72
ATOM	1863	0	SER	Α	239	31.379	37.830	53.360	1.00 35.25
ATOM	1864	CB	SER			33.231	40.601	53.074	1.00 29.14
ATOM	1865	OG	SER			32.747	41.590	53.961	1.00 54.60
							39.703	54.154	1.00 33.13
MOTA	1866	N	MET			30.382			
MOTA	1867	CA	MET			29.529	38.993	55.091	1.00 28.55
ATOM	1868	С	MET	A	240	28.603	38.075	54.325	1.00 35.65
ATOM	1869	0	MET	Α	240	28.435	36.926	54.689	1.00 35.99
ATOM	1870	CB	MET	A	240	28.736	39.945	55.993	1.00 26.50
ATOM	1871	CG	MET	Α	240	29.691	40.675	56.910	1.00 27.57
ATOM	1872	SD	MET			28.871	41.986	57.833	1.00 32.91
		CE				30.040	42.085	59.183	1.00 28.47
ATOM	1873		MET						
ATOM	1874	N	LEU			28.019	38.603	53.243	1.00 32.77
ATOM	1875	CA	LEU			27.120	37.859	52.381	1.00 29.87
MOTA	1876	С	LEU	Α	241	27.848	36.615	51.878	1.00 36.76
ATOM	1877	0	LEU	Α	241	27.302	35.509	51.858	1.00 36.97
MOTA	1878	CB	LEU	Α	241	26.715	38.753	51.196	1.00 29.71
ATOM	1879	CG	LEU	A	241	25.283	39.289	51.237	1.00 37.68
ATOM	1880		LEU			25.174	40.552	50.389	1.00 35.76
			LEU				38.257	50.673	1.00 45.60
ATOM	1881					24.309			
ATOM	1882	Ŋ	LYS			29.114		51.468	1.00 34.76
MOTA	1883	ÇA	LYS			29.908	35.702	50.972	1.00 33.62
ATOM	1884	C	LYS	Α	242	30.072	34.690	52.039	1.00 32.18
MOTA	1885	0	LYS	Α	242	29.887	33.512	51.795	1.00 32.56
ATOM	1886	CB	LYS			31.292	36.069	50.468	1.00 38.43
ATOM	1887	CG	LYS			31.406	36.263	48.961	1.00 49.23
			LYS			31.160		48.536	1.00 88.36
ATOM	1888	CD					37.721		
MOTA	1889	CE	LYS			32.371	38.456	47.943	1.00100.00
MOTA	1890	NZ	LYS			32.033	39.411	46.862	1.00100.00
MOTA	1891	N	ILE	А	243	30.428	35.154	53.227	1.00 30.87
ATOM	1892	CA	ILE	A	243	30.627	34.229	54.359	1.00 31.70
ATOM	1893	C	ILB	А	243	29.381	33.458	54.764	1.00 36.50
ATOM	1894	ō	ILE			29.458	32.303	55.119	1.00 39.33
		CB	ILE			31.227		55.579	1.00 32.36
ATOM	1895						34.886		
ATOM	1896	CG1				32.630	35.337	55.222	1.00 32.09
MOTA	1897		ILE			31.243	33.891	56.718	1.00 28.26
ATOM	1898	CD1	ILE	A	243	33.035	36.578	55.981	1.00 20.09
ATOM	1899	N	ALA	A	244	28.237	34.120	54.708	1.00 32.10

ATOM	1900	CA	ALA	A	244	26.968	33.519	55.066	1.00 3	2.95
ATOM	1901	С	ALA	Α	244	26.600	32.392	54.127	1.00 3	6.35
ATOM	1902	0			244	26.074				
							31.358	54.546	1.00 3	
MOTA	1903	CB	ALA	A	244	25.858	34.576	55.123	1.00 3	4.02
ATOM	1904	N	GLU	Α	245	26.890	32.617	52.846	1.00 3	1.20
ATOM	1905	CA			245	26.614	31.635	51.818	1.00 2	
MOTA	1906	C	GLU	Α	245	27.360	30.354	52.092	1.00 3	5.18
ATOM	1907	0	GLU	Α	245	26.849	29.276	51.800	1.00 3	6.21
MOTA	1908	CB	GLII	Δ	245	26.908	32.177	50.421	1.00 3	0 22
MOTA	1909	CG	GLU			25.701	32.938	49.842	1.00 3	
ATOM	1910	CD	GLU	Α	245	26.026	33.564	48.529	1.00 5	1.91
ATOM	1911	OE1	GLU	Α	245	26.945	34.351	48.358	1.00 3	4.19
ATOM	1912	OE2	GLU	Α	245	25.246	33.142	47.585	1.00 4	7.48
	1913	N			246					
MOTA						28.570	30.484	52.680	1.00 3	
MOTA	1914	CA	ASP	А	246	29.417	29.350	53.033	1.00 3	0.70
MOTA	1915	C	ASP	Α	246	28.848	28.645	54.230	1.00 3	5.47
ATOM	1916	0	ASP	Α	246	28.881	27.417	54.347	1.00 3	7.08
ATOM	1917	CB			246	30.873	29.717	53.355		
									1.00 3	
ATOM	1918	CG	ASP	A	246	31.709	28.473	53.413	1.00 6	4.49
MOTA	1919	OD1	ASP	Α	246	31.934	27.789	52.437	1.00 6	7.15
MOTA	1920	OD2	ASP	Α	246	32.118	28.167	54.622	1.00 7	9.01
ATOM	1921	N	LEU			28.323	29.434	55.134	1.00 3	
ATOM	1922	CA	LEU			27.731	28.868	56.334	1.00 3	6.70
ATOM	1923	C	LEU	Α	247	26.355	28.208	56.083	1.00 3	5.92
MOTA	1924	0	LEU	Α	247	26.060	27.110	56.551	1.00 3	0.77
ATOM	1925	CB	LEU			27.562	29.954	57.435	1.00 3	
ATOM	1926	CG	LEU			28.732	30.100	58.394	1.00 4	
MOTA	1927		LEU			29.341	28.738	58.641	1.00 4	8.20
ATOM	1928	CD2	LEU	Α	247	29.779	31.013	57.815	1.00 3	5.25
ATOM	1929	N	GLY			25.471	28.887	55.353	1.00 3	4.97
ATOM	1930	CA	GLY			24.160	28.315	55.181	1.00 3	
ATOM	1931	C	GLY			23.754	27.976	53.778	1.00 3	
MOTA	1932	0	GLY	Α	248	22.637	27.524	53.526	1.00 3	8.13
ATOM	1933	N	GLY	Α	249	24.637	28.158	52.849	1.00 3	0.74
ATOM	1934	CA	GLY			24.203	27.852	51.526	1.00 3	
		c								
ATOM	1935		GLY			23.918	29.131	50.759	1.00 3	
ATOM	1936	0	GLY	А	249	24.126	30.240	51.238	1.00 4	1.32
.ATOM	1937	N	PRO	Α	250	23.453	28.946	49.547	1.00 3	8.93
ATOM	1938	CA	PRO	Α	250	23.173	30.021	48.639	1.00 3	8.03
MOTA	1939	C	PRO			22.203	31.078	49.096	1.00 4	
ATOM	1940	0	PRO			21.258	30.823	49.840	1.00 4	
MOTA	1941	CB	PRO			22.663	29.357	47.352	1.00 3	9.18
MOTA	1942	CG	PRO	Α	250	22.952	27.864	47.436	1.00 4	1.01
ATOM	1943	CD	PRO	Α	250	23.396	27.610	48.865	1.00 3	8.57
MOTA	1944	N	TYR			22.486	32.275			
ATOM	1945	CA	TYR			21.692	33.461	48.817	1.00 3	
MOTA	1946	С	TYR			20.740	33.479	47.649	1.00 3	
ATOM	1947	0	TYR	Α	251	21.125	33.794	46.535	1.00 4	2.57
ATOM	1948	CB	TYR	Α	251	22.540	34.759	48.790	1.00 3	
ATOM	1949	CG	TYR			21.711	35.980	49.119	1.00 3	
MOTA	1950		TYR			21.341	36.229	50.441	1.00 3	
MOTA	1951	CD2	TYR	Α	251	21.260	36.846	48.121	1.00 3	7.98
ATOM	1952	CE1	TYR	A	251	20.575	37.341	50.781	1.00 2	
ATOM	1953		TYR			20.492	37.967	48.443	1.00 4	
ATOM	1954	CZ	TYR			20.160	38.213	49.777	1.00 4	
ATOM	1955	OH	TYR			19.409	39.307	50.112	1.00 3	9.70
ATOM	1956	N	VAL	A	252	19.510	33.102	47.914	1.00 3	2.21
ATOM	1957	CA	VAL			18.495	33.003	46.899	1.00 3	
ATOM	1958	C	VAL			17.708	34.279	46.631		
									1.00 3	
ATOM	1959	0	VAL			17.000	34.340	45.640	1.00 4	
ATOM	1960	CB	VAL	Α	252	17.560	31.845	47.253	1.00 3	1.27

N TOM	1961	CC1	VAL	7	252	18.378	30.605	47.643	1.00 28.15
ATOM									
ATOM	1962		VAL			16.614	32.234	48.405	1.00 30.93
MOTA	1963	N	TRP	Α	253	17.800	35.292	47.504	1.00 32.44
MOTA	1964	CA	TRP	Α	253	17.041	36.509	47.309	1.00 30.93
ATOM	1965	C			253	17.468	37.341	46.119	1.00 43.56
MOTA	1966	0	TRP			16.690	38.119	45.568	1.00 46.70
MOTA	1967	CB	TRP	Α	253	16.898	37.302	48.606	1.00 29.65
ATOM	1968	CG	TRP	Α	253	16.364	36.369	49.625	1.00 30.19
MOTA	1969		TRP			17.086	35.546	50.413	1.00 32.81
MOTA	1970	CD2				14.989	36.110	49.913	1.00 29.63
ATOM	1971	NE1	TRP	Α	253	16.251	34.794	51.194	1.00 30.69
ATOM	1972	CE2	TRP	Α	253	14.955	35.128	50.912	1.00 31.50
MOTA	1973	CE3	TRP			13.789	36.637	49.450	1.00 30.18
							34.657	51.433	1.00 30.31
MOTA	1974	CZ2	TRP			13.746			
MOTA	1975	CZ3	TRP	Α	253	12.600	36.164	49.958	1.00 31.14
ATOM	1976	CH2	TRP	Α	253	12.579	35.176	50.946	1.00 31.37
MOTA	1977	N	GLY	Α	254	18.697	37.182	45.675	1.00 42.35
	1978	CA	GLY			19.101	37.944	44.509	1.00 41.34
MOTA									
MOTA	1979	C	GLY			19.875	39.192	44.858	1.00 45.47
MOTA	1980	0	GLY	Α	254	21.079	39.236	44.671	1.00 45.89
ATOM	1981	N	GLN	A	255	19.160	40.210	45.351	1.00 41.86
MOTA	1982	CA	GLN	Α	255	19.746	41.488	45.675	1.00 38.67
		C	GLN			19.576	41.776	47.153	1.00 40.18
ATOM	1983								
MOTA	1984	0	GLN			18.494	41.811	47.659	1.00 38.67
ATOM	1985	CB	GLN	Α	255	19.023	42.552	44.836	1.00 37.82
ATOM	1986	CG	GLN	Α	255	19.455	43.979	45.169	1.00 50.17
ATOM	1987	CD	GLN			20.618	44.368	44.283	1.00 62.88
	1988					21.104	43.612	43.463	1.00 55.76
MOTA		OE1							
ATOM	1989	NE2	GLN			21.057	45.625	44.479	1.00 34.97
MOTA	1990	N	TYR	Α	256	20.716	41.900	47.866	1.00 33.01
ATOM	1991	CA	TYR	Α	256	20.651	42.361	49.258	1.00 28.69
ATOM	1992	С	TYR	Δ	256	20.891	43.854	49.329	1.00 26.72
		ō	TYR			21.963	44.321	49.225	1.00 24.22
MOTA	1993								
ATOM	1994	CB	TYR			21.743	41.629	50.075	1.00 29.99
ATOM	1995	CG	TYR	Α	256	21.567	41.867	51.556	1.00 35.47
ATOM	1996	CD1	TYR	A	256	20.582	41.200	52.250	1.00 35.76
MOTA	1997	CD2	TYR	Α	256	22.405	42.746	52.239	1.00 37.52
ATOM	1998	CE1				20.436	41.396	53.599	1.00 25.80
								53.588	1.00 39.10
MOTA	1999		TYR			22.255	42.946		
MOTA	2000	CZ	TYR	A	256	21.283	42.275	54.268	1.00 31.78
MOTA	2001	OH	TYR	Α	256	21.153	42.433	55.631	1.00 37.35
ATOM	2002	N	ASP	Α	257	19.834	44.613	49.463	1.00 23.26
ATOM	2003	CA	ASP	Δ	257	20.077	46.027	49.621	1.00 23.47
	2004	c.	ASP			19.977	46.444	51.071	1.00 35.90
MOTA									
MOTA	2005	0	ASP			19.729	45.661	51.967	1.00 39.48
ATOM	2006	CB	ASP	Α	257	19.073	46.803	48.758	1.00 24.13
MOTA	2007	CG	ASP	Α	257	19.689	47.030	47.388	1.00 38.50
MOTA	2008	CDI	ASP	А	257	20.843	46.675	47.220	1.00 42.61
	2009		ASP			19.020	47.555	46.517	1.00 29.02
MOTA								51.386	1.00 30.86
MOTA	2010	N	LEU			20.370	47.661		
MOTA	2011	CA	LEU			20.306	48.159	52.735	1.00 27.50
MOTA	2012	С	LEU	A	258	19.526	49.466	52.765	1.00 36.37
MOTA	2013	0	LEU	Α	258	19.620	50.302	51.840	1.00 37.98
ATOM	2014	СВ			258	21.727	48.442	53.274	1.00 24.71
								53.491	1.00 31.13
MOTA	2015	CG	LEU			22.552	47.191		
MOTA		777	T.DIT	Α	258	23.913	47.567	54.043	1.00 30.89
AIOM	2016								
ATOM	2016 2017		LEU		258	21.854	46.282	54.500	1.00 33.65
ATOM				A		21.854 18.762		54.500 53.838	1.00 33.65 1.00 29.87
ATOM ATOM	2017 2018	CD2 N	TEN TEN	A A	259	18.762	49.632	53.838	1.00 29.87
MOTA MOTA MOTA	2017 2018 2019	CD2 N CA	rea rea rea	A A A	259 259	18.762 18.006	49.632 50.849	53.838 54.052	1.00 29.87 1.00 28.43
ATOM ATOM	2017 2018	CD2 N	TEA FEA FEA TEA	A A A	259	18.762	49.632	53.838	1.00 29.87

MOTA	2022	CB			259	16.500	50.809	53.693	1.00 27.63
MOTA	2023	CG	LEU	Α	259	15.706	51.980	54.298	1.00 31.51
MOTA	2024	CD1	LEU	A	259	16.026	53.300	53.605	1.00 32.32
ATOM	2025	CD2			259	14.212	51.731	54.253	1.00 26.87
ATOM	2026	N			260	18.807	52.683	55.447	
									1.00 25.88
ATOM	2027	CA			260	19.105	53.435	56.638	1.00 25.99
ATOM	2028	C			260	17.896	54.336	56.796	1.00 34.83
MOTA	2029	0	VAL	Α	260	17.647	55.187	55.959	1.00 41.92
ATOM	2030	CB	VAL	Α	260	20.390	54.234	56.408	1.00 29.97
ATOM	2031	CG1	VAL	Α	260	20.701	55.179	57.592	1.00 32.08
ATOM	2032	CG2	VAL	Α	260	21.563	53.295	56.130	1.00 26.15
ATOM	2033	N			261	17.098	54.120	57.815	1.00 28.41
ATOM	2034	CA			261	15.865	54.878	58.024	1.00 25.52
ATOM	2035	C			261	16.016	56.054	58.948	1.00 29.42
MOTA	2036	0			261	17.090	56.300	59.489	1.00 29.96
MOTA	2037	CB	LEU	A	261	14.874	53.921	58.706	1.00 25.70
MOTA	2038	CG	LEU	A	261	14.387	52.877	57.740	1.00 33.14
ATOM	2039	CD1	LEU	Α	261	15.161	51.571	57.929	1.00 32.73
ATOM	2040	CD2	LEU	Α	261	12.900	52.686	57.935	1.00 43.74
ATOM	2041	N			262	14.903	56.758	59.142	1.00 28.52
ATOM	2042	CA			262	14.894	57.870	60.047	1.00 28.50
ATOM	2043	C			262	15.152		61.432	
							57.294		1.00 35.36
ATOM	2044	0			262	14.866	56.124	61.683	1.00 34.52
MOTA	2045	CB			262	13.512	58.512	59.971	1.00 29.19
MOTA	2046	CG			262	12.707	57.719	58.964	1.00 34.34
MOTA	2047	CD			262	13.581	56.575	58.492	1.00 30.63
MOTA	2048	N	PRO	A	263	15.706	58.105	62.327	1.00 31.50
MOTA	2049	CA	PRO	A	263	16.060	57.657	63.673	1.00 28.77
ATOM	2050	С	PRO	A	263	14.966	57.021	64.493	1.00 29.15
ATOM	2051	0	PRO	A	263	15.256	56.335	65.434	1.00 26.36
ATOM	2052	CB	PRO	A	263	16.652	58.867	64.392	1.00 29.16
ATOM	2053	CG			263	16.851	59.954	63.335	1.00 31.55
MOTA	2054	œ			263	15.994	59.558	62.138	1.00 29.17
ATOM	2055	N			264	13.712	57.258	64.143	1.00 33.87
ATOM	2056	CA			264	12.578	56.703	64.864	1.00 33.81
ATOM	2057	C			264	12.403	55.223	64.604	1.00 37.36
ATOM								65.201	
	2058	0			264	11.529	54.570		1.00 39.61
ATOM	2059	CB	SER			11.280	57.423	64.576	1.00 35.61
ATOM	2060	OG	SER			10.955	57.276	63.201	1.00 53.45
ATOM	2061	N	PHE			13.213	54.684	63.710	1.00 29.00
ATOM	2062	CA	PHE			13.136	53.256	63.453	1.00 28.56
MOTA	2063	C	PHE	Α	265	13.260	52.491	64.787	1.00 28.49
ATOM	2064	0	PHE	A	265	14.208	52.675	65.533	1.00 27.36
MOTA	2065	CB	PHE	A·	265	14.200	52.833	62.454	1.00 31.40
MOTA	2066	CG	PHE	Α	265	13.875	51.458	62.028	1.00 34.51
ATOM	2067	CD1	PHE	Α	265	12.601	51.174	61.543	1.00 35.11
ATOM	2068	CD2	PHE	Α	265	14.814	50.435	62.156	1.00 38.94
ATOM	2069	CE1	PHE	Α	265	12.282	49.876	61.154	1.00 37.42
ATOM	2070		PHE			14.511	49.131	61.772	1.00 42.65
ATOM	2071	CZ	PHE			13.236	48.860	61.274	1.00 40.14
ATOM	2072	N	PRO			12.272	51.650	65.128	1.00 24.06
ATOM	2073	CA	PRO			12.249	50.945	66.419	1.00 20.62
ATOM	2074	C	PRO			13.231	49.794	66.701	1.00 29.34
ATOM	2075	0	PRO			13.343	49.364	67.847	1.00 28.17
MOTA	2076	CB	PRO			10.808	50.463	66.593	1.00 19.16
ATOM	2077	CG	PRO			10.076	50.686	65.281	1.00 21.07
ATOM	2078	æ	PRO	A	266	11.046	51.355	64.325	1.00 19.44
MOTA	2079	N	TYR	A	267	13.922	49.280	65.676	1.00 27.23
ATOM	2080	CA	TYR	A	267	14.849	48.160	65.817	1.00 25.74
ATOM	2081	С	TYR	A	267	16.181	48.454	65.189	1.00 32.57
ATOM	2082	0	TYR	A	267	16.281	49.316	64.324	1.00 32.48

ATOM	2083	CB	TYR	Α	267	14.298	46.903	65.121	1.00	25.07
ATOM	2084	CG	TYR	Α	267	12.968	46.502	65.674	1.00	24.45
ATOM	2085	CD1	TYR	Α	267	12.915	45.765	66.856	1.00	27.05
MOTA	2086	CD2	TYR			11.776	46.851	65.037		22.15
	2087	CE1	TYR			11.697	45.387	67.419		25.01
ATOM										
ATOM	2088	CE2	TYR			10.548	46.496	65.596		19.09
ATOM	2089	CZ	TYR			10.510	45.767	66.786		17.98
MOTA	2090	OH	TYR	A	267	9.302	45.416	67.353	1.00	19.51
ATOM	2091	N	GLY	Α	268	17.196	47.698	65.627	1.00	30.22
ATOM	2092	CA	GLY	Α	268	18.547	47.826	65.114	1.00	27.29
ATOM	2093	С	GLY	Α	268	18.485	47.620	63.614	1.00	29.82
MOTA	2094	0	GLY	А	268	19.136	48.297	62.836	1.00	32.99
ATOM	2095	N	GLY	Δ	269	17.637	46.676	63.228	1.00	23.19
ATOM	2096	CA	GLY			17.393	46.320	61.853		21.62
ATOM	2097	C	GLY			16.187	45.402	61.777		27.53
		0					44.948	62.820		20.14
ATOM	2098		GLY			15.681				
MOTA	2099	N	MET			15.735	45.154	60.528		27.81
MOTA	2100	CA	MET			14.615	44.267	60.176		25.61
MOTA	2101	С	MET	Α	270	14.956	43.585	58.874		33.56
MOTA	2102	0	MET	A	270	15.221	44.247	57.867	1.00	34.67
MOTA	2103	CB	MET	Α	270	13.247	44.936	60.028	1.00	26.07
MOTA	2104	CG	MET	Α	270	12.195	43.937	59.602	1.00	28.81
ATOM	2105	SD	MET	Α	270	11.875	42.742	60.929	1.00	37.39
ATOM	2106	CE	MET	Α	270	10.720	41.621	60.082	1.00	35.30
ATOM	2107	N	GLU			14.995	42.263	58.904		32.20
MOTA	2108	CA	GLU			15.393	41.459	57.753		33.32
ATOM	2109	C	GLU			14.419	41.382	56.567		40.86
							40.285	56.107		42.02
ATOM	2110	0	GLU			14.087				
ATOM	2111	CB	GLU			15.802	40.054	58.230		35.05
MOTA	2112	CG	GLU			14.607	39.218	58.760		33.55
MOTA	2113	CD	$G\Gamma\Omega$			14.291	39.428	60.219		25.52
ATOM	2114	OE1	GLU	А	271	14.586	40.436	60.844		37.23
MOTA	2115	OE2	GLU	А	271	13.699	38.393	60.757	1.00	25.86
MOTA	2116	N	ASN	Α	272	13.978	42.535	56.052	1.00	35.34
ATOM	2117	CA	ASN	Α	272	13.057	42.544	54.928	1.00	33.26
MOTA	2118	C	ASN	А	272	13.787	42.048	53.702	1.00	34.47
ATOM	2119	0	ASN	А	272	14.811	42.613	53.351	1.00	33.64
ATOM	2120	CB	ASN	Α	272	12.441	43.947	54.719	1.00	30.65
ATOM	2121	CG	ASN			11.667	44.453	55.935		42.50
ATOM	2122	OD1				11.908	45.554	56.475		47.09
ATOM	2123	ND2	ASN			10.716	43.661	56.371		24.31
ATOM	2124	N	PRO			13.281	40.983	53.078		29.63
		CA	PRO			13.935	40.373	51.910		28.47
ATOM	2125							50.819		30.43
ATOM	2126	C	PRO			14.303	41.345			
MOTA	2127	0	PRO			13.457	42.089	50.372		31.65
ATOM	2128	CB	PRO			12.991	39.305	51.381		30.16
MOTA	2129	CG	PRO			11.829	39.237	52.365		36.65
ATOM	2130	CD	PRO			11.927	40.440	53.310		30.84
ATOM	2131	N	CYS	Α	274	15.571	41.333	50.431	1.00	27.40
MOTA	2132	CA	CYS	Α	274	16.069	42.206	49.373	1.00	28.17
MOTA	2133	С	CYS	Α	274	16.327	43.604	49.860	1.00	27.35
ATOM	2134	0	CYS	А	274	17.114	44.345	49.248	1.00	28.53
MOTA	2135	CB	CYS	A	274	15.121	42.347	48.145	1.00	32.00
ATOM	2136	SG	CYS			14.659	40.798	47.340	1.00	38.42
ATOM	2137	N	LEU			15.658	43.972	50.947		26.20
ATOM	2138	CA	LEU			15.789	45.315	51.535		29.54
ATOM	2139	C	LEU			15.857	45.279	53.059		32.52
	2140	0	LEU			14.859	45.250	53.772		32.44
ATOM								51.005		28.58
ATOM	2141	CB	LEU			14.657	46.253			
ATOM	2142	CG	LEU			14.847	47.735	51.239		26.78
MOTA	2143	CD1	LEU	A	275	16.191	48.183	50.698	1.00	21.90

ATOM 2144 CD2 LeU A 275 13.712 48.476 50.554 1.00 31.48 ATOM 2145 N THR A 276 17.052 45.244 53.570 1.00 29.67 ATOM 2147 C THR A 276 17.225 45.198 54.996 1.00 30.47 ATOM 2148 O THR A 276 17.250 46.624 55.597 1.00 31.46 ATOM 2149 CB THR A 276 17.260 47.588 55.129 1.00 31.46 ATOM 2149 CB THR A 276 18.254 43.030 55.121 1.00 31.01 ATOM 2151 CG2 THR A 276 18.224 43.030 55.512 1.00 30.98 ATOM 2151 CG2 THR A 276 19.124 44.835 56.694 1.00 29.43 ATOM 2151 CG2 THR A 276 19.124 44.835 56.694 1.00 29.43 ATOM 2152 N PHB A 277 16.260 46.759 56.622 1.00 29.43 ATOM 2153 CA PHB A 277 16.260 46.759 56.622 1.00 29.43 ATOM 2155 C PHB A 277 17.184 48.065 58.403 1.00 36.07 ATOM 2155 C PHB A 277 17.184 48.065 58.403 1.00 36.50 ATOM 2155 C PHB A 277 17.337 47.088 59.131 1.00 34.57 ATOM 2155 C PHB A 277 14.011 47.966 55.568 1.00 30.72 ATOM 2155 C PHB A 277 14.011 47.966 55.568 1.00 30.73 ATOM 2159 CD PHB A 277 14.011 47.966 55.568 1.00 30.73 ATOM 2159 CD PHB A 277 11.619 49.276 56.101 1.00 30.61 ATOM 2150 CE PHB A 277 11.619 49.276 56.601 1.00 30.61 ATOM 2161 CS2 PHB A 277 11.619 49.276 56.101 1.00 32.26 ATOM 2163 N VAL A 278 18.839 49.338 59.614 1.00 32.26 ATOM 2163 N VAL A 278 18.839 49.338 59.614 1.00 32.26 ATOM 2163 N VAL A 278 18.839 49.338 59.614 1.00 32.26 ATOM 2163 C C VAL A 278 18.291 50.55 56.804 1.00 37.01 ATOM 2167 C VAL A 278 18.291 50.356 59.103 1.00 36.51 ATOM 2167 C VAL A 278 18.291 50.356 59.103 1.00 36.51 ATOM 2167 C VAL A 278 18.291 50.356 59.103 1.00 36.51 ATOM 2167 C VAL A 278 18.291 50.356 59.103 1.00 36.51 ATOM 2167 C VAL A 278 20.173 47.967 58.006 1.00 37.01 ATOM 2167 C VAL A 278 20.173 47.967 58.006 1.00 37.01 ATOM 2167 C VAL A 278 20.173 47.967 58.006 1.00 37.01 ATOM 2167 C VAL A 278 20.173 47.967 58.006 1.00 37.01 ATOM 2167 C VAL A 278 20.173 47.967 58.006 1.00 37.01 ATOM 2170 C THR A 279 18.291 50.356 59.444 1.00 32.36 ATOM 2171 C THR A 279 18.291 50.356 59.444 1.00 32.36 ATOM 2171 C THR A 279 18.291 50.356 59.444 1.00 32.36 ATOM 2175 C THR A 279 18.291 50.356 59.444 1.00 32.36 ATOM 2175 C THR A 281 22.199 50										
ATOM	ATOM	2144	CD2	LEU	A	275	13.712	48.478	50.554	1.00 31.48
ATOM   2147   C	MOTA	2145	N	THR	Α	276	17.062	45.244	53.570	1.00 29.67
ATOM   2147   C	ATOM	2146	CA	THR	Α	276	17.225	45.198	54.996	1.00 30.47
ATOM   2148   O								46 624		
ATOM										
ATOM										
ATOM 2151 CC2 THR A 276										
ATOM										
ATOM 2153 CA PHE A 277	MOTA	2151	CG2	THR	Α	276	19.124	44.835	56.694	1.00 29.43
ATOM 2154 C PHE A 277	ATOM	2152	N	PHE	Α	277	16.280	46.759	56.622	1.00 27.69
ATOM 2155 C PHE A 277	ATOM	2153	CA	PHE	A	277	16.164	48.034	57.274	1.00 28.92
ATOM	ATOM	2154	С	PHE	А	277	17.184	48.065	58.403	1.00 36.07
ATOM 2156 CB PHE A 277										
ATOM 2157 CG PHE A 277									-	
ATOM 2159 CD1 PHE A 277 12.573 49.114 57.105 1.00 30.73 ATOM 2150 CD2 PHE A 277 12.573 49.114 57.105 1.00 30.673 ATOM 2160 CB1 PHE A 277 13.072 48.135 54.552 1.00 29.30 ATOM 2161 CB2 PHE A 277 11.619 49.276 56.101 1.00 32.26 ATOM 2162 CZ PHE A 277 11.619 49.276 56.101 1.00 32.26 ATOM 2163 N VAL A 278 17.864 49.186 58.662 1.00 32.97 ATOM 2164 CA VAL A 278 18.839 49.338 59.614 1.00 32.66 ATOM 2165 C VAL A 278 18.839 49.338 59.614 1.00 37.01 ATOM 2166 CD VAL A 278 18.696 50.698 60.248 1.00 37.01 ATOM 2167 CB VAL A 278 18.696 50.698 60.248 1.00 37.01 ATOM 2167 CB VAL A 278 20.173 47.967 58.086 1.00 37.16 ATOM 2168 CG1 VAL A 278 20.173 47.967 58.086 1.00 37.46 ATOM 2169 CG2 VAL A 278 20.173 47.967 58.086 1.00 37.48 ATOM 2169 CG VAL A 278 20.173 47.967 58.086 1.00 37.48 ATOM 2170 N THR A 279 18.948 51.994 62.264 1.00 37.48 ATOM 2171 CA THR A 279 18.948 51.994 62.264 1.00 31.03 ATOM 2172 C THR A 279 20.121 52.883 62.035 1.00 37.42 ATOM 2173 C THR A 279 18.885 51.695 63.759 1.00 31.39 ATOM 2173 C THR A 279 18.885 51.695 63.759 1.00 31.39 ATOM 2174 CB THR A 279 19.10 52.895 64.472 1.00 34.21 ATOM 2175 CG1 THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2176 CG2 THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2176 CG2 THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2177 N PRO A 280 19.845 51.695 63.759 1.00 37.00 ATOM 2180 C PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2180 C PRO A 280 22.951 55.588 62.934 1.00 30.07 ATOM 2180 C PRO A 280 22.951 55.588 62.934 1.00 30.07 ATOM 2181 CB PRO A 280 22.951 55.588 62.934 1.00 30.07 ATOM 2181 CB PRO A 280 22.951 55.588 62.934 1.00 30.07 ATOM 2181 CB PRO A 280 22.951 55.588 62.934 1.00 30.07 ATOM 2183 CD PRO A 280 22.951 55.588 62.934 1.00 31.37 ATOM 2183 CD PRO A 280 22.951 55.588 62.934 1.00 31.37 ATOM 2183 CD PRO A 280 22.951 55.588 62.934 1.00 31.37 ATOM 2183 CD PRO A 280 22.951 55.588 62.934 1.00 31.37 ATOM 2183 CD PRO A 280 22.951 55.588 62.934 1.00 31.37 ATOM 2183 CD PRO A 280 22.951 55.588 62.934 1.00 32.07 ATOM 2183 CD PRO A 280 22.951 55.588 62.934 1.00 32.07 ATOM 2183 CD										
ATOM 2160 CE1 PHE A 277 13.072 48.135 54.552 1.00 29.306 ATOM 2161 CE2 PHE A 277 11.619 49.276 56.101 1.00 32.26 ATOM 2162 CZ PHE A 277 11.619 49.276 56.101 1.00 32.26 ATOM 2163 N VAL A 278 18.839 49.338 59.614 1.00 32.26 ATOM 2164 CA VAL A 278 18.839 49.338 59.614 1.00 32.66 ATOM 2165 C VAL A 278 18.839 49.338 59.614 1.00 32.66 ATOM 2166 CO VAL A 278 18.696 50.698 60.248 1.00 37.16 ATOM 2167 CB VAL A 278 20.246 49.088 59.109 1.00 36.51 ATOM 2168 CG VAL A 278 20.246 49.088 59.109 1.00 36.51 ATOM 2168 CG VAL A 278 20.246 49.088 59.109 1.00 36.51 ATOM 2169 CG2 VAL A 278 20.246 49.088 59.109 1.00 36.51 ATOM 2169 CG2 VAL A 278 20.246 49.088 59.109 1.00 36.51 ATOM 2169 CG2 VAL A 278 20.246 49.088 59.109 1.00 36.51 ATOM 2170 CA THR A 279 19.066 50.778 61.515 1.00 32.36 ATOM 2171 CA THR A 279 19.066 50.778 61.515 1.00 32.36 ATOM 2171 CA THR A 279 18.948 51.994 62.264 1.00 31.03 ATOM 2172 C THR A 279 21.243 52.397 61.920 1.00 39.87 ATOM 2172 C THR A 279 18.948 51.994 62.264 1.00 31.03 ATOM 2173 C THR A 279 19.105 52.895 64.72 1.00 31.03 ATOM 2173 C THR A 279 19.989 50.706 64.083 1.00 23.69 ATOM 2175 CG2 THR A 279 19.989 50.706 64.083 1.00 23.69 ATOM 2176 CG2 THR A 279 19.989 50.706 64.083 1.00 23.69 ATOM 2178 CA PRO A 280 20.993 55.132 61.802 1.00 30.07 ATOM 2178 CA PRO A 280 20.993 55.132 61.802 1.00 30.07 ATOM 2178 CA PRO A 280 20.993 55.132 61.802 1.00 30.07 ATOM 2182 CG PRO A 280 20.249 56.497 61.601 1.00 26.23 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2183 CD PRO A 280 18.769 56.337 61.889 1.00 30.02 ATOM 2183 CD PRO A 280 18.769 56.337 61.809 1.00 30.20 ATOM 2180 CG THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2187 C THR A 281 22.199 54.426 65.302 1.00 27.02 ATOM 2183 CD PRO A 280 18.769 56.337 61.809 1.00 30.20 ATOM 2180 CG THR A 281 22.199 54.426 65.302 1.00 27.82 ATOM 2180 CG THR A 281 22.199 54.426 65.302 1.00 27.82 ATOM 2180 CG THR A 281 22.199 54.426 65.302 1.00 27.82 ATOM 2180 CG THR A 281 22.199 54.426 65.302 1.00 27.82 ATOM 2193 C LEU A 282 23.312 48.494 64.249 1.00 22.14 ATOM 2193 C										
ATOM 2161 CE1 PHE A 277										
ATOM 2161 CE2 PHE A 277										
ATOM 2162 CZ PHE A 277	MOTA									
ATOM 2164 CA VAL A 278	ATOM	2161	CE2	PHE	A	277	11.619	49.276	56.101	1.00 32.26
ATOM 2164 CA VAL A 278	ATOM	2162	CZ	PHE	Α	277	11.862	48.772	54.824	1.00 27.48
ATOM 2165 C VAL A 278	ATOM	2163	N	VAL	Α	278	17.864	49.186	58.562	1.00 32.97
ATOM 2166 O VAL A 278	ATOM	2164	CA	VAL	A	278	18.839	49.338	59.614	1.00 32.66
ATOM 2166 O VAL A 278	ATOM	2165	С	VAL	Α	278	18.696	50.698	60.248	1.00 37.01
ATOM 2167 CB VAL A 278				VAL	А	278				
ATOM 2168 CG1 VAL A 278										
ATOM 2169 CG2 VAL A 278										
ATOM 2170 N THR A 279 19.066 50.778 61.515 1.00 32.36 ATOM 2171 CA THR A 279 18.948 51.994 62.264 1.00 31.03 ATOM 2171 CA THR A 279 20.121 52.883 62.035 1.00 37.42 ATOM 2173 O THR A 279 21.243 52.397 61.920 1.00 39.87 ATOM 2174 CB THR A 279 18.885 51.695 63.759 1.00 31.39 ATOM 2175 OGI THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2175 OGI THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2176 CG2 THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2177 N PRO A 280 19.845 54.187 62.000 1.00 30.07 ATOM 2178 CA PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2179 C PRO A 280 21.823 55.110 63.005 1.00 30.20 ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 26.23 ATOM 2183 CD PRO A 280 18.769 56.337 61.889 1.00 26.23 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2187 O THR A 281 22.348 54.509 64.112 1.00 27.82 ATOM 2188 CB THR A 281 22.372 53.523 65.073 1.00 31.37 ATOM 2189 OGI THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2189 OGI THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2189 OGI THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2189 OGI THR A 281 23.372 53.523 65.073 1.00 31.37 ATOM 2189 OGI THR A 281 24.226 53.385 65.944 1.00 33.18 ATOM 2189 OGI THR A 281 24.226 53.385 65.941 1.00 31.37 ATOM 2189 OGI THR A 281 24.226 53.385 65.941 1.00 33.18 ATOM 2199 CG2 THR A 281 24.226 53.385 65.944 1.00 24.44 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 24.04 ATOM 2195 CB LEU A 282 23.378 52.881 63.913 1.00 24.04 ATOM 2195 CB LEU A 282 23.378 52.881 63.913 1.00 24.04 ATOM 2195 CB LEU A 282 23.3104 49.916 62.819 1.00 34.74 ATOM 2195 CB LEU A 282 23.3104 49.916 62.819 1.00 34.74 ATOM 2195 CB LEU A 282 23.322 49.404 64.249 1.00 27.77 ATOM 2195 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2201 C LEU A 283 27.965 55.324 63.055 1.00 41.94 ATOM 2201 C LEU A 283 27.967 55.525 63.196 1.00 49.19 ATOM 2203										
ATOM 2171 CA THR A 279										
ATOM 2172 C THR A 279 20.121 52.883 62.035 1.00 37.42 ATOM 2173 O THR A 279 21.243 52.397 61.920 1.00 39.87 ATOM 2174 CB THR A 279 19.105 52.895 63.759 1.00 31.39 ATOM 2175 OG1 THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2176 CG2 THR A 279 19.989 50.706 64.083 1.00 23.69 ATOM 2177 N PRO A 280 19.845 54.187 62.000 1.00 30.07 ATOM 2178 CA PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2179 C PRO A 280 21.823 55.110 63.005 1.00 30.60 ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 20.249 56.497 61.601 1.00 26.23 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 26.13 ATOM 2183 CD PRO A 280 18.499 54.848 61.984 1.00 26.11 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2186 C THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2188 CB THR A 281 22.395 53.523 65.073 1.00 31.37 ATOM 2188 CB THR A 281 22.395 53.523 65.073 1.00 31.37 ATOM 2188 CB THR A 281 22.397 52.681 66.601 1.00 21.45 ATOM 2189 OG1 THR A 281 22.397 52.681 66.501 1.00 21.45 ATOM 2189 OG1 THR A 281 22.397 65.386 65.944 1.00 31.37 ATOM 2189 OG1 THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2190 CG2 THR A 281 22.397 65.881 63.913 1.00 25.29 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2192 CA LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2195 CB LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2195 CB LEU A 282 23.318 62.464 1.00 22.14 ATOM 2195 CB LEU A 282 23.318 62.464 1.00 22.14 ATOM 2195 CB LEU A 282 23.318 62.464 1.00 22.14 ATOM 2195 CB LEU A 282 23.314 49.916 62.819 1.00 27.77 ATOM 2199 N LEU A 282 23.312 48.809 61.791 1.00 27.75 ATOM 2199 CD2 LEU A 282 23.312 49.404 64.249 1.00 21.75 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 22.14 ATOM 2190 CD2 LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2200 CA LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2201 C LEU A 283 25.5661 56.117 61.418 1.00 29.55										
ATOM 2173 O THR A 279 18.243 52.397 61.920 1.00 39.87 ATOM 2174 CB THR A 279 18.885 51.695 63.759 1.00 31.39 ATOM 2175 OG1 THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2176 CG2 THR A 279 19.989 50.706 64.083 1.00 23.69 ATOM 2177 N PRO A 280 19.845 54.187 62.000 1.00 30.07 ATOM 2178 CA PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2179 C PRO A 280 21.823 55.110 63.005 1.00 30.60 ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.60 ATOM 2181 CB PRO A 280 22.951 55.588 62.934 1.00 30.60 ATOM 2183 CD PRO A 280 22.951 55.588 62.934 1.00 26.23 ATOM 2183 CD PRO A 280 18.769 56.337 61.889 1.00 26.23 ATOM 2183 CD PRO A 280 18.769 56.337 61.889 1.00 26.11 ATOM 2183 CD PRO A 280 18.499 54.848 61.984 1.00 26.11 ATOM 2183 CD THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 31.37 ATOM 2187 O THR A 281 24.226 53.385 65.944 1.00 31.93 ATOM 2188 CB THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2189 OG1 THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 31.93 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 31.93 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 32.18 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 32.18 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 32.18 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2192 CA LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2193 C LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2195 CB LEU A 282 23.378 52.279 62.884 1.00 34.84 ATOM 2195 CB LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2195 CB LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 N LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 CD2 LEU A 282 23.322 49.404 64.249 1.00 21.75 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2201 C LEU A 283 26.501 54.903 62.159 1.00 31.43 ATOM 2201 C LEU A 283 26.501 54.903 62.159 1.00 31.43 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 C LEU										
ATOM 2174 CB THR A 279 18.885 51.695 63.759 1.00 31.39 ATOM 2175 OG1 THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2176 CG2 THR A 279 19.989 50.706 64.083 1.00 23.69 ATOM 2177 N PRO A 280 19.845 54.187 62.000 1.00 30.07 ATOM 2178 CA PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2179 C PRO A 280 21.823 55.110 63.005 1.00 30.60 ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 20.249 56.497 61.601 1.00 26.23 ATOM 2183 CD PRO A 280 18.769 56.337 61.889 1.00 26.23 ATOM 2183 CD PRO A 280 18.769 56.337 61.889 1.00 26.11 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2186 C THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2187 O THR A 281 23.372 53.523 65.073 1.00 31.37 ATOM 2188 CB THR A 281 24.226 53.385 65.944 1.00 31.37 ATOM 2188 CB THR A 281 24.226 53.385 65.944 1.00 31.37 ATOM 2189 OG1 THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2190 CG2 THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2190 CG2 THR A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2192 CA LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2193 C LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2195 CB LEU A 282 23.312 48.809 61.791 1.00 22.14 ATOM 2195 CB LEU A 282 23.312 48.809 61.791 1.00 22.17 ATOM 2199 N LEU A 282 23.312 48.809 61.791 1.00 22.17 ATOM 2199 N LEU A 283 23.322 49.404 64.249 1.00 31.43 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2190 CD LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2200 CA LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94	MOTA	2172								
ATOM 2175 OG1 THR A 279 19.110 52.895 64.472 1.00 34.21 ATOM 2176 CG2 THR A 279 19.989 50.706 64.083 1.00 23.69 ATOM 2177 N PRO A 280 19.845 54.187 62.000 1.00 30.07 ATOM 2178 CA PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2180 O PRO A 280 21.823 55.110 63.005 1.00 30.60 ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 20.249 56.497 61.601 1.00 26.23 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2183 CD PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.82 ATOM 2186 C THR A 281 22.199 54.426 65.302 1.00 27.82 ATOM 2188 CB THR A 281 22.199 54.016 66.601 1.00 31.93 ATOM 2189 OG1 THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2189 OG1 THR A 281 21.021 52.681 66.524 1.00 31.87 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 31.87 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 31.88 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 31.88 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 32.89 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 23.004 49.916 62.819 1.00 21.75 ATOM 2194 C LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2202 C LEU A 283 25.4	ATOM	2173	0	THR	A	279	21.243	52.397		
ATOM 2176 CG2 THR A 279 19.989 50.706 64.083 1.00 23.69 ATOM 2177 N PRO A 280 19.845 54.187 62.000 1.00 30.07 ATOM 2178 CA PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2179 C PRO A 280 21.823 55.110 63.005 1.00 30.60 ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 20.249 56.497 61.601 1.00 26.23 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2183 CD PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2183 CD PRO A 280 18.499 54.848 61.984 1.00 26.11 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.48 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2187 O THR A 281 23.372 53.523 65.073 1.00 31.37 ATOM 2188 CB THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2189 CG1 THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2190 CG2 THR A 281 20.388 54.994 66.874 1.00 33.18 ATOM 2190 CG2 THR A 281 20.388 54.994 66.874 1.00 25.29 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2193 C LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2195 CB LEU A 282 24.063 51.098 62.464 1.00 34.74 ATOM 2195 CB LEU A 282 24.063 51.098 62.464 1.00 34.74 ATOM 2195 CB LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 N LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 N LEU A 282 23.322 49.404 64.249 1.00 22.17 ATOM 2199 N LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2200 CA LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2201 CLEU A 283 27.507 55.525 63.196 1.00 41.94 ATOM 2202 C LEU A 283 27.507 55.525 63.196 1.00 41.94 ATOM 2202 C LEU A 283 27.507 56.525 63.196 1.00 49.19 ATOM 2202 C LEU A 283 27.507 56.525 63.196 1.00 49.19 ATOM 2202 C LEU A 283 27.507 56.525 63.196 1.00 49.19 ATOM 2202 C LEU A 283 27.507 56.525 63.196 1.00 49.19	ATOM	2174	CB	THR	Α	279	18.885	51.695	63.759	1.00 31.39
ATOM 2177 N PRO A 280 19.845 54.187 62.000 1.00 30.07 ATOM 2178 CA PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2179 C PRO A 280 21.823 55.110 63.005 1.00 30.60 ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 20.249 56.497 61.601 1.00 26.23 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2183 CD PRO A 280 18.499 54.848 61.984 1.00 26.11 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2186 C THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2186 C THR A 281 24.226 53.385 65.944 1.00 31.37 ATOM 2188 CB THR A 281 24.226 53.385 65.944 1.00 31.93 ATOM 2189 OG1 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2193 C LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2195 CB LEU A 282 24.663 51.038 62.464 1.00 34.84 ATOM 2195 CB LEU A 282 24.663 51.038 62.464 1.00 22.14 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 24.04 ATOM 2195 CB LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2198 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 N LEU A 282 23.322 49.404 64.249 1.00 27.77 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 31.94 ATOM 2202 CA LEU A 283 25.465 54.063 62.744 1.00 32.75 ATOM 2200 CA LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 C LEU A 283 27.659 55.324 63.055 1.00 49.19	ATOM	2175	OG1	THR	Α	279	19.110	52.895	64.472	1.00 34.21
ATOM 2178 CA PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2179 C PRO A 280 21.823 55.110 63.005 1.00 30.60 ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 20.249 56.497 61.869 1.00 28.07 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2183 CD PRO A 280 18.499 54.848 61.984 1.00 26.11 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2186 C THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2187 O THR A 281 23.372 53.523 65.073 1.00 31.37 ATOM 2187 O THR A 281 24.226 53.385 65.073 1.00 31.37 ATOM 2187 O THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2189 OG1 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2192 CA LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2193 C LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 34.84 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 22.14 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 22.14 ATOM 2197 CD1 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2198 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2200 CA LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2201 C LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 49.19	MOTA	2176	CG2	THR	Α	279	19.989	50.706	64.083	1.00 23.69
ATOM 2178 CA PRO A 280 20.903 55.132 61.802 1.00 27.00 ATOM 2179 C PRO A 280 21.823 55.110 63.005 1.00 30.60 ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 20.249 56.497 61.869 1.00 28.07 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2183 CD PRO A 280 18.499 54.848 61.984 1.00 26.11 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2186 C THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2187 O THR A 281 23.372 53.523 65.073 1.00 31.37 ATOM 2187 O THR A 281 24.226 53.385 65.073 1.00 31.37 ATOM 2187 O THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2189 OG1 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2192 CA LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2193 C LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 34.84 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 22.14 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 22.14 ATOM 2197 CD1 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2198 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2200 CA LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2201 C LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.659 55.324 63.055 1.00 49.19	MOTA	2177	N	PRO	Α	280	19.845	54.187	62.000	1.00 30.07
ATOM 2180 O PRO A 280 22.951 55.588 62.934 1.00 30.60 ATOM 2181 CB PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 20.249 56.497 61.601 1.00 26.23 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2183 CD PRO A 280 18.499 54.848 61.984 1.00 26.11 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2186 C THR A 281 23.372 53.523 65.073 1.00 31.37 ATOM 2187 O THR A 281 24.226 53.385 65.944 1.00 31.93 ATOM 2188 CB THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2193 C LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2194 O LEU A 282 26.787 52.279 62.884 1.00 34.84 ATOM 2195 CB LEU A 282 23.312 48.809 61.791 1.00 34.84 ATOM 2197 CD1 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2198 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 CD2 LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2200 CA LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.99 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 41.99 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19		2178	CA	PRO	Α	280	20.903		61.802	1.00 27.00
ATOM 2181 CB PRO A 280 22.951 55.588 62.934 1.00 30.20 ATOM 2181 CB PRO A 280 20.249 56.497 61.601 1.00 26.23 ATOM 2182 CG PRO A 280 18.769 56.337 61.889 1.00 28.07 ATOM 2183 CD PRO A 280 18.499 54.848 61.984 1.00 26.11 ATOM 2184 N THR A 281 21.348 54.509 64.112 1.00 27.82 ATOM 2185 CA THR A 281 22.199 54.426 65.302 1.00 27.48 ATOM 2186 C THR A 281 23.372 53.523 65.073 1.00 31.37 ATOM 2187 O THR A 281 24.226 53.385 65.944 1.00 31.93 ATOM 2188 CB THR A 281 21.499 54.016 66.601 1.00 21.45 ATOM 2190 CG2 THR A 281 21.021 52.681 66.524 1.00 33.18 ATOM 2190 CG2 THR A 281 23.372 53.523 65.073 1.00 31.93 ATOM 2191 N LEU A 282 23.378 52.881 63.913 1.00 25.29 ATOM 2192 CA LEU A 282 24.473 51.993 63.586 1.00 24.04 ATOM 2193 C LEU A 282 25.682 52.790 63.049 1.00 34.74 ATOM 2194 O LEU A 282 26.787 52.279 62.884 1.00 34.84 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 34.84 ATOM 2197 CD1 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2198 CD2 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 N LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 21.75 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 41.99 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2202 CA LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19 ATOM 2203 CB LEU A 283 27.659 55.324 63.055 1.00 49.19										1.00 30.60
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ATOM 2193 C LEU A 282 25.682 52.790 63.049 1.00 34.74  ATOM 2194 O LEU A 282 26.787 52.279 62.884 1.00 34.84  ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 22.14  ATOM 2196 CG LEU A 282 23.104 49.916 62.819 1.00 26.88  ATOM 2197 CD1 LEU A 282 23.312 48.809 61.791 1.00 27.77  ATOM 2198 CD2 LEU A 282 23.322 49.404 64.249 1.00 21.75  ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05  ATOM 2200 CA LEU A 283 26.501 54.903 62.159 1.00 31.43  ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94  ATOM 2202 O LEU A 283 27.907 56.525 63.196 1.00 49.19  ATOM 2203 CB LEU A 283 25.861 56.117 61.418 1.00 29.55	MOTA	2191	N	LEU	A	282	23.378	52.881	63.913	1.00 25.29
ATOM 2194 O LEU A 282 26.787 52.279 62.884 1.00 34.84 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 22.14 ATOM 2196 CG LEU A 282 23.104 49.916 62.819 1.00 26.88 ATOM 2197 CD1 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2198 CD2 LEU A 282 23.312 49.404 64.249 1.00 21.75 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2200 CA LEU A 283 26.501 54.903 62.159 1.00 31.43 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.907 56.525 63.196 1.00 49.19 ATOM 2203 CB LEU A 283 25.861 56.117 61.418 1.00 29.55	ATOM	2192	CA	LEU	Α	282	24.473	51.993	63.586	1.00 24.04
ATOM 2194 O LEU A 282 26.787 52.279 62.884 1.00 34.84 ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 22.14 ATOM 2196 CG LEU A 282 23.104 49.916 62.819 1.00 26.88 ATOM 2197 CD1 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2198 CD2 LEU A 282 23.312 49.404 64.249 1.00 21.75 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2200 CA LEU A 283 26.501 54.903 62.159 1.00 31.43 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.907 56.525 63.196 1.00 49.19 ATOM 2203 CB LEU A 283 25.861 56.117 61.418 1.00 29.55	ATOM	2193	C	LEU	Α	282	25.682	52.790	63.049	1.00 34.74
ATOM 2195 CB LEU A 282 24.063 51.038 62.464 1.00 22.14 ATOM 2196 CG LEU A 282 23.104 49.916 62.819 1.00 26.88 ATOM 2197 CD1 LEU A 282 23.312 48.809 61.791 1.00 27.77 ATOM 2198 CD2 LEU A 282 23.322 49.404 64.249 1.00 21.75 ATOM 2199 N LEU A 283 25.465 54.063 62.744 1.00 32.05 ATOM 2200 CA LEU A 283 26.501 54.903 62.159 1.00 31.43 ATOM 2201 C LEU A 283 27.659 55.324 63.055 1.00 41.94 ATOM 2202 O LEU A 283 27.907 56.525 63.196 1.00 49.19 ATOM 2203 CB LEU A 283 25.861 56.117 61.418 1.00 29.55	ATOM	2194	0				26.787			1.00 34.84
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ATOM 2203 CB LEU A 283 25.861 56.117 61.418 1.00 29.55										
ATOM 2204 CG LEU A 283 24.720 55.661 60.488 1.00 32.94										
	ATOM	2204	CG	LEU	Α	283	24.720	55.661	60.488	1.00 32.94

MOTA	2205	CD1	LEU	Α	283	23.933	56.811	59.869	1.00	33.48
MOTA	2206	CD2	LEU	Α	283	25.232	54.716	59.409	1.00	28.39
ATOM	2207	N	ALA	A	284	28.387	54.370	63.638	1.00	33.18
MOTA	2208	CA	ALA	A	284	29.488	54.728	64.532	1.00	30.20
ATOM	2209	С	ALA	Α	284	30.655	55.492	63.922	1.00	31.97
ATOM	2210	0	ALA	А	284	31.411	56.165	64.642	1.00	31.40
ATOM	2211	СВ	ALA			29.973	53.544	65.336		29.60
ATOM	2212	N	GLY			30.801	55.371	62.605		27.10
ATOM	2213	CA	GLY			31.882	56.018	61.867		29.77
ATOM	2214	C	GLY			33.174	55.194	61.910		39.25
ATOM	2215	ō	GLY			34.264	55.649	61.544		41.21
	2215	И	ASP			33.022	53.951	62.363		34.57
MOTA		CA	ASP			34.144	53.951	62.473		32.57
ATOM	2217					33.805		62.473		31.59
ATOM	2218	C	ASP				51.625			
MOTA	2219	0	ASP			34.609	50.743	62.325		29.27
MOTA	2220	CB	ASP			34.812	53.163	63.860		34.65
MOTA	2221	CG	ASP			34.081	52.447	64.945		41.93
MOTA	2222		ASP			33.008	51.893	64.765		45.21
ATOM	2223		ASP			34.714	52.492	66.087		35.67
MOTA	2224	И	LYS			32.590	51.395	61.641		29.46
ATOM	2225	CA	LYS			32.199	50.038	61.272	1.00	31.62
MOTA	2226	С	LYS	Α	287	31.976	49.060	62.437	1.00	37.91
MOTA	2227	0	LYS	Α	287	31.761	47.879	62.240	1.00	37.91
ATOM	2228	CB	LYS	A	287	33.215	49.447	60.304	1.00	32.17
ATOM	2229	CG	LYS	A	287	33.510	50.358	59.119	1.00	51.60
ATOM	2230	CD	LYS	Α	287	33.960	49.601	57.877	1.00	50.74
ATOM	2231	CE	LYS	A	287	35.290	50.105	57.328	1.00	63.80
ATOM	2232	NZ	LYS	Α	287	35.167	50.866	56.069	1.00	71.91
ATOM	2233	N	SER	Α	288	32.168	49.575	63.647	1.00	31.58
ATOM	2234	CA	SER			32.079	48.737	64.810	1.00	27.15
MOTA	2235	C	SER			30.742	48.137	65.142	1.00	36.08
ATOM	2236	0	SER			30.676	47.318	66.057	1.00	37.87
ATOM	2237	CB	SER			32.618	49.463	66.005	1.00	16.31
ATOM	2238	0G	SER			31.659	50.443	66.312		29.71
ATOM	2239	N	LEU			29.669	48.529	64.460		29.34
ATOM	2240	CA	LEU			28.351	47.979	64.794		24.70
ATOM	2241	C	LEU			27.792	47.105	63.686		32.97
ATOM	2242	ō	LEU			26.591	46.766	63.648		30.35
ATOM	2243	CB	LEU			27.385	49.090	65.191		21.45
MOTA	2244	CG	LEU			27.954	49.887	66.347		22.99
ATOM	2245		LEU			26.881	50.769	66.950		20.66
MOTA	2246	CD2	LEU			28.381	48.881	67.394		29.65
ATOM	2247	N	SER			28.723	46.753	62.801		31.21
ATOM	2248	CA	SER			28.453	45.941	61.645		29.89
				_		27.861	44.582	62.006		30.57
ATOM	2249 2250	C O	SER			27.299	43.872	61.153		29.73
ATOM	2251	CB	SER			29.704	45.800	60.783		29.27
ATOM		OG	SER			30.470	44.725	61.266		38.77
MOTA	2252	N	ASN			27.980	44.207	63.282		26.55
MOTA	2253									
MOTA	2254	CA	ASN			27.449		63.706		25.78
MOTA	2255	C	ASN			26.006	42.773	63.355		30.89
MOTA	2256	0	ASN			25.576	41.702	62.975		29.73
MOTA	2257	CB	ASN			27.725	42.503	65.157		28.48
ATOM	2258	CG	ASN			26.910	43.313	66.119		33.33
ATOM	2259		ASN			27.065	44.529	66.198		34.48
ATOM	2260		ASN			26.001	42.653	66.818		28.96
MOTA	2261	N	VAL			25.277	43.885	63.476		30.68
MOTA	2262	CA	VAL			23.865	43.924	63.142		30.27
ATOM	2263	С	VAL			23.667	43.619	61.669		32.61
MOTA	2264	0	VAL			22.644	43.082	61.255		33.31
ATOM	2265	CB	VAL	A	292	23.288	45.289	63.505	1.00	35.13

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ATOM	2266	CG1	VAL	А	292	21.877	45.486	62.946	1.00 33.48
ATOM	2267	CG2	VAL	Α	292	23.328	45.478	65.014	1.00 35.02
ATOM	2268	N	ILE	Δ	293	24.653	43.975	60.861	1.00 27.92
ATOM		CA							
	2269				293	24.527	43.685	59.461	1.00 28.71
ATOM	2270	C			293	24.658	42.159	59.296	1.00 35.03
MOTA	2271	0	ILE	Α	293	23.860	41.475	58.624	1.00 38.34
ATOM	2272	CB	ILE	Α	293	25.554	44.438	58.606	1.00 33.84
ATOM	2273	CG1			293	25.608	45.952	58.898	1.00 34.55
MOTA	2274	CG2			293	25.305	44.186	57.121	1.00 36.50
ATOM	2275	CD1	ILE	Α	293	24.265	46.680	58.808	1.00 30.49
ATOM	2276	N	ALA	A	294	25.668	41.584	59.934	1.00 23.76
ATOM	2277	CA	ALA	Α	294	25.836	40.138	59.809	1.00 19.95
ATOM	2278	C			294	24.559	39.409	60.165	1.00 27.33
ATOM	2279	0			294	24.183	38.422	59.505	1.00 25.48
MOTA	2280	CB	ALA	A	294	26.984	39.644	60.688	1.00 19.24
MOTA	2281	N	HIS	A	295	23.917	39.934	61.244	1.00 27.63
ATOM	2282	CA	HIS	Α	295	22.666	39.414	61.797	1.00 26.83
ATOM	2283	C	HIS			21.611	39.383	60.734	1.00 28.61
		ō							
ATOM	2284	-	HIS			21.169	38.301	60.348	1.00 25.72
ATOM	2285	CB	HIS	A	295	22.148	40.175	63.028	1.00 27.98
ATOM	2286	CG	HIS	A	295	20.937	39.534	63.657	1.00 31.62
ATOM	2287	ND1	HIS	Α	295	21.047	38.675	64.763	1.00 32.66
ATOM	2288		HIS			19.602	39.643	63.338	1.00 30.92
	2289		HIS			19.802			1.00 30.14
ATOM							38.298	65.088	
ATOM	2290		HIS			18.916	38.860	64.254	1.00 30.24
MOTA	2291	N	GLU	A	296	21.257	40.590	60.251	1.00 27.23
MOTA	2292	CA	GLU	Α	296	20.266	40.749	59.195	1.00 25.98
ATOM	2293	С	GLU	Α	296	20.533	39.790	58.056	1.00 32.73
ATOM	2294	0	GLU			19.628	39.081	57.561	1.00 31.88
ATOM	2295	CB	GLU			20.046	42.203	58.728	1.00 24.55
ATOM	2296	CG	GLU			19.892	43.148	59.936	1.00 23.16
ATOM	2297	CD	GLU	A	296	18.939	42.632	60.991	1.00 53.50
MOTA	2298	OE1	GLU	A	296	17.964	41.956	60.700	1.00 23.99
ATOM	2299	OE2	GLU	Α	296	19.237	43.006	62.233	1.00 32.77
ATOM	2300	N	ILE			21.803	39.745	57.675	1.00 25.37
ATOM	2301	CA	ILE			22.195	38.870	56.599	1.00 22.64
		C							
ATOM	2302		ILE			21.812	37.445	56.859	1.00 27.47
MOTA	2303	0			297	21.175	36.799	56.048	1.00 26.25
ATOM	2304	CB	ILE	Α	297	23.672	38.963	56.302	1.00 24.19
MOTA	2305	CG1	ILE	Α	297	23.920	40.140	55.355	1.00 25.28
MOTA	2306	CG2	ILE	Α	297	24.079	37.686	55.626	1.00 20.77
MOTA	2307	CD1	ILE			25.325	40.705	55.435	1.00 16.26
ATOM	2308	N	SER			22.226	36.947	58.012	1.00 28.23
ATOM	2309	CA.	SER	_		21.939	35.569	58.377	1.00 25.04
ATOM	2310	C	SER			20.467	35.235	58.298	1.00 26.21
MOTA	2311	0	SER	Α	298	20.118	34.097	58.000	1.00 26.30
MOTA	2312	CB	SER	A	298	22.520	35.209	59.714	1.00 27.82
ATOM	2313	OG	SER	Α	298	23.890	35.552	59.714	1.00 35.98
ATOM	2314	N	HIS			19.599	36.230	58.562	1.00 22.17
MOTA	2315	CA	HIS			18.205	36.092	58.719	1.00 22.77
ATOM	2316	C	HIS			17.614	35.710	57.387	1.00 29.10
MOTA	2317	0	HIS	Α	299	16.553	35.162	57.290	1.00 31.50
ATOM	2318	CB	HIS	Α	299	17.662	37.432	59.200	1.00 24.67
MOTA	2319	CG	HIS			17.053	37.338	60.602	1.00 29.10
ATOM	2320		HIS			16.190	36.368	60.975	1.00 30.70
			HIS			17.196	38.233		
ATOM	2321							61.667	1.00 32.39
ATOM	2322		HIS			15.811	36.675	62.233	1.00 30.41
ATOM	2323	NE2	HIS			16.397	37.783	62.674	1.00 31.74
MOTA	2324	N	SER	Α	300	18.356	36.048	56.315	1.00 23.31
ATOM	2325	CA	SER	Α	300	17.942	35.581	55.010	1.00 24.24
ATOM	2326	c	SER			17.879	34.050	54.977	1.00 34.13
		_				,			

ATOM	2327	0	SER .	A 3	300	17.075	33.463	54.305	1.00 33.28
ATOM	2328	CB	SER .	A 3	300	18.941	36.092	53.965	1.00 27.31
ATOM	2329	OG	SER	A 3	300	18.947	37.519	53.962	1.00 49.96
MOTA	2330	N	TRP	A 3	301	18.773	33.411	55.752	1.00 33.09
ATOM	2331	CA	TRP .	А 3	301	18.702	31.969	55.829	1.00 31.84
ATOM	2332	С	TRP .	A 3	301	17.740	31.511	56.895	1.00 32.15
ATOM	2333	0	TRP	А 3	301	16.764	30.876	56.620	1.00 27.05
ATOM	2334	CB	TRP .			20.095	31.429	56.082	1.00 30.16
ATOM	2335	CG	TRP	А 3	301	20.791	31.421	54.801	1.00 32.02
ATOM	2336	CD1				20.787	30.393	53.859	1.00 35.05
ATOM	2337	CD2	TRP			21.496	32.520	54.202	1.00 30.84
ATOM	2338	NE1				21.415	30.732	52.722	1.00 33.29
ATOM	2339	CE2	TRP			21.886	32.112	52.921	1.00 33.44
ATOM	2340	CE3	TRP			21.811	33.790	54.631	1.00 32.65
ATOM	2341	CZ2	TRP			22.577	32.970	52.108	1.00 32.21
MOTA	2342	CZ3	TRP			22.503	34.652	53.812	1.00 36.10
ATOM	2343	CH2	TRP			22.888	34.239	52.544	1.00 36.83
ATOM	2344	N	THR			18.042	31.864	58.146	1.00 31.77
ATOM	2345	CA	THR			17.125	31.488	59.215	1.00 33.55
ATOM	2346	C	THR			16.276	32.690	59.695	1.00 36.35
ATOM	2347	ō	THR			16.759	33.590	60.330	1.00 36.56
MOTA	2348	CB	THR			17.963	30.920	60.366	1.00 31.04
ATOM	2349	OG1	THR			19.047	31.807	60.639	1.00 38.50
MOTA	2350	CG2	THR			18.544	29.555	59.967	1.00 17.10
ATOM		N	GLY			15.053	32.418	59.250	1.00 25.28
ATOM	2352	CA	GLY			13.908	33.236	59.483	1.00 21.59
ATOM	2353	C	GLY .			13.202	33.382	58.163	1.00 26.99
MOTA	2354	o	GLY			12.040	33.040	57.994	1.00 26.18
ATOM	2355	N	ASN			13.936	33.891	57.195	1.00 28.05
MOTA	2356	CA	ASN .			13.363	34.101	55.875	1.00 28.17
ATOM	2357	C	ASN			13.141	32.839	55.056	1.00 28.99
MOTA	2358	ō	ASN			12.118	32.715	54.415	1.00 24.87
MOTA	2359	CB	ASN			14.091	35.176	55.047	1.00 23.55
ATOM	2360	CG	ASN .			14.133	36.499	55.757	1.00 37.80
ATOM	2361		ASN .			13.630	36.613	56.892	1.00 20.66
ATOM	2362	ND2				14.752	37.488	55.093	1.00 24.17
ATOM	2363	N	LEU			14.110	31.919	55.055	1.00 27.24
ATOM	2364	CA	LEU :			13.987	30.677	54.306	1.00 27.34
MOTA	2365	C	LEU			13.218	29.665	55.121	1.00 31.29
ATOM	2366	0	LEU 2			12.235	29.051	54.678	1.00 29.23
ATOM	2367	CB	LEU :	A 3	05	15.371	30.119	53.967	1.00 27.62
ATOM	2368	CG	LEU .	A 3	05	15.805	30.593	52.603	1.00 32.23
ATOM	2369	CD1	LEU 2	A 3	05	17.289	30.293	52.412	1.00 28.91
MOTA	2370	CD2	LEU .	A 3	05	14.951	29.887	51.549	1.00 41.51
MOTA	2371	N	VAL :			13.711	29.528	56.347	1.00 27.75
ATOM	2372	CA	VAL 3	A 3	06	13.134	28.652	57.327	1.00 29.99
ATOM	2373	C	VAL 2	<b>4</b> 3	06	12.578	29.527	58.403	1.00 31.78
MOTA	2374	0	VAL 2	A 3	06	13.306	30.217	59.110	1.00 28.32
ATOM	2375	CB	VAL	A 3	06	14.092	27.593	57.827	1.00 37.24
ATOM	2376	CG1	VAL 2	<b>A</b> 3	06	15.479	28.180	57.969	1.00 38.36
ATOM	2377	CG2	VAL 2	<b>A</b> 3	06	13.602	27.107	59.164	1.00 37.56
ATOM	2378	Ŋ	THR	<b>A</b> 3	07	11.259	29.517	58.440	1.00 29.40
MOTA	2379	CA	THR 2	A 3	07	10.499	30.358	59.320	1.00 28.14
MOTA	2380	С	THR I	A 3	07	9.729	29.712	60.446	1.00 34.06
MOTA	2381	0	THR 2	A 3	07	9.029	28.706	60.277	1.00 36.72
MOTA	2382	CB	THR I	A 3	07	9.474	31.115	58.460	1.00 23.03
MOTA	2383	OG1	THR	A 3	07	10.124	31.811	57.422	1.00 28.56
ATOM	2384	CG2	THR .	A 3	07	8.665	32.068	59.336	1.00 12.55
ATOM	2385	N	ASN 2	A 3	808	9.802	30.347	61.608	1.00 29.29
ATOM	2386	CA	ASN 2			9.042	29.862	62.724	1.00 27.82
MOTA	2387	C	ASN I	<b>A</b> 3	808	7.576	29.716	62.234	1.00 31.42

ATOM	2388	0	ASN	Α	308	7.072	30.535	61.450	1.00 32.96
ATOM	2389	CB	ASN			9.194	30.790	63.972	1.00 23.57
MOTA	2390	CG			308	8.935	32.298	63.745	1.00 30.38
ATOM	2391		ASN			9.505	33.190	64.400	1.00 23.70
ATOM	2392		ASN			8.056	32.608	62.818	1.00 23.70
ATOM	2393	ND2			309	6.890	28.658	62.640	1.00 24.10
		CA	LYS						1.00 23.40
ATOM	2394					5.502	28.433	62.230	
ATOM	2395	C			309	4.514	29.380	62.964	1.00 28.17
MOTA	2396	0			309	3.430	29.756	62.474	1.00 22.88
ATOM	2397	CB			309	5.151	26.975	62.459	1.00 24.26
ATOM	2398	CG			309	4.036	26.478	61.555	1.00 28.57
ATOM	2399	CD			309	3.543	25.075	61.924	1.00 38.25
MOTA	2400	CE			309	3.475	24.112	60.739	1.00 78.39
MOTA	2401	NZ			309	4.389	22.953	60.849	1.00 98.22
MOTA	2402	N			310	4.917	29.744	64.179	1.00 23.46
MOTA	2403	CA			310	4.179	30.616	65.037	1.00 22.98
MOTA	2404	С	THR	A	310	5.142	31.336	65.922	1.00 31.43
MOTA	2405	0	THR	Α	310	6.223	30.836	66.230	1.00 31.51
MOTA	2406	CB	THR	A	310	3.104	29.917	65.871	1.00 34.01
ATOM	2407	OG1			310	3.684	29.148	66.945	1.00 27.97
MOTA	2408	CG2	THR	Α	310	2.174	29.114	64.956	1.00 24.58
MOTA	2409	N	TRP	A	311	4.733	32.527	66.299	1.00 29.82
MOTA	2410	CA	TRP	A	311	5.559	33.371	67.120	1.00 30.49
MOTA	2411	C	TRP	A	311	6.044	32.692	68.381	1.00 26.99
MOTA	2412	0	TRP	A	311	7.015	33.101	68.971	1.00 25.15
MOTA	2413	CB	TRP	Α	311	4.933	34.768	67.320	1.00 30.34
MOTA	2414	CG	TRP	Α	311	4.706	35.412	66.001	1.00 30.63
MOTA	2415	CD1	TRP	Α	311	3.514	35.785	65.490	1.00 32.07
MOTA	2416	CD2	TRP	Α	311	5.705	35.723	65.008	1.00 31.31
ATOM	2417	NE1	TRP	Α	311	3.703	36.335	64.250	1.00 29.97
ATOM	2418	CE2	TRP	A	311	5.033	36.317	63.931	1.00 32.88
ATOM	2419	CE3	TRP	Α	311	7.099	35.586	64.943	1.00 31.44
MOTA	2420	CZ2	TRP	Α	311	5.721	36.771	62.804	1.00 31.56
MOTA	2421	CZ3	TRP	Α	311	7.779	36.059	63.848	1.00 30.39
ATOM	2422	CH2	TRP	Α	311	7.089	36.639	62.789	1.00 30.58
ATOM	2423	N	ASP	А	312	5.366	31.632	68.770	1.00 27.36
MOTA	2424	CA	ASP	Α	312	5.757	30.868	69.950	1.00 27.38
MOTA	2425	C	ASP	Α	312	7.149	30.213	69.757	1.00 31.25
ATOM	2426	0	ASP	Α	312	7.826	29.802	70.718	1.00 27.07
ATOM	2427	CB	ASP	A	312	4.697	29.750	70.217	1.00 25.96
ATOM	2428	CG	ASP	A	312	3.432	30.230	70.872	1.00 27.42
ATOM	2429	OD1	ASP	Α	312	3.197	31.396	71.102	1.00 28.97
MOTA	2430	OD2	ASP	Α	312	2.623	29.265	71.208	1.00 29.33
ATOM	2431	N	HIS	Α	313	7.562	30.089	68.487	1.00 25.04
ATOM	2432	CA	HIS	Α	313	8.820	29.454	68.164	1.00 23.48
ATOM	2433	С	HIS	Α	313	9.864	30.452	67.737	1.00 25.38
MOTA	2434	0	HIS	A	313	10.929	30.139	67.214	1.00 29.97
MOTA	2435	CB	HIS	A	313	8.588	28.245	67.209	1.00 25.00
MOTA	2436	CG	HIS	Α	313	7.641	27.230	67.837	1.00 29.77
MOTA	2437	ND1	HIS	Α	313	8.087	26.183	68.635	1.00 31.37
MOTA	2438	CD2	HIS	A	313	6.279	27.152	67.808	1.00 31.31
MOTA	2439	CE1	HIS	Α	313	7.015	25.509	69.039	1.00 28.91
MOTA	2440	NE2	HIS	Α	313	5.913	26.066	68.559	1.00 29.40
ATOM	2441	N	PHE	Α	314	9.521	31.682	68.005	1.00 17.43
ATOM	2442	CA	PHE	A	314	10.345	32.810	67.701	1.00 17.16
ATOM	2443	С	PHE	A	314	11.852	32.523	67.812	1.00 26.01
MOTA	2444	0	PHE	A	314	12.669	32.922	66.963	1.00 30.40
ATOM	2445	CB	PHE	A	314	9.908	34.056	68.517	1.00 18.63
ATOM	2446	CG	PHE	Α	314	10.592	35.351	68.113	1.00 20.10
MOTA	2447	CD1	PHE	A	314	10.712	35.697	66.768	1.00 21.80
ATOM	2448	CD2	PHE	Α	314	11.129	36.214	69.070	1.00 22.60

MOTA	2449	CE1	PHE	A	314	11.337	36.890	66.400	1.00 24.74
MOTA	2450	CE2	PHE	A	314	11.750	37.416	68.716	1.00 27.24
MOTA	2451	CZ	PHE	Α	314	11.857	37.756	67.368	1.00 24.97
ATOM	2452	N	TRP			12.235	31.828	68.861	1.00 19.66
MOTA	2453	CA	TRP			13.639	31.541	69.068	1.00 17.87
ATOM	2454	C	TRP			14.292	30.775	67.953	1.00 28.55
ATOM	2455	ō	TRP			15.518	30.769	67.830	1.00 29.23
ATOM	2456	СВ	TRP			13.860	30.842	70.362	1.00 16.03
ATOM	2457	CG			315	13.613	29.408	70.161	1.00 19.64
ATOM	2458		TRP			12.428	28.787	70.247	1.00 22.39
MOTA	2459		TRP			14.599	28.430	69.876	1.00 21.70
ATOM	2460	NE1	TRP			12.597	27.457	70.033	1.00 24.22
		CE2	TRP			13.934	27.205	69.801	1.00 27.96
ATOM	2461	CE3	TRP			15.976	28.481	69.681	1.00 27.30
ATOM	2462	CZ2	TRP			14.631	26.018	69.547	1.00 27.76
ATOM	2463					16.651	27.321	69.421	1.00 27.76
ATOM	2464	CZ3	TRP			15.991	26.108	69.341	1.00 23.10
ATOM	2465	CH2	TRP					67.144	1.00 26.33
MOTA	2466	N			316	13.488	30.114		
ATOM	2467	CA			316	14.092	29.400	66.067	1.00 25.44
MOTA	2468	C	LEU			14.666	30.443	65.129	1.00 33.21
MOTA	2469	0			316	15.737	30.252	64.530	1.00 37.80
MOTA	2470	CB			316	13.050	28.567	65.311	1.00 24.82
MOTA	2471	CG			316	12.663	27.242	65.956	1.00 27.62
MOTA	2472		<b>TEA</b>			11.574	26.552	65.106	1.00 22.30
MOTA	2473		LEU			13.897	26.344	66.097	1.00 27.03
MOTA	2474	N			317	13.931	31.555	64.997	1.00 20.55
MOTA	2475	CA	ASN	Α	317	14.354	32.624	64.115	1.00 19.34
MOTA	2476	C	ASN	Α	317	15.603	33.333	64.531	1.00 30.38
ATOM	2477	0	asn	Α	317	16.553	33.425	63.766	1.00 32.04
MOTA	2478	CB			317	13.273	33.682	63.838	1.00 14.82
MOTA	2479	CG	ASN	Α	317	12.330	33.177	62.793	1.00 31.14
ATOM	2480		ASN			12.151	31.966	62.657	1.00 38.42
MOTA	2481	ND2	asn	Α	317	11.724	34.074	62.049	1.00 17.34
ATOM	2482	N	GLU	Α	318	15.562	33.870	65.750	1.00 26.15
ATOM	2483	CA	GLU	Α	318	16.624	34.648	66.358	1.00 20.23
ATOM	2484	C	GLU	A	318	17.860	33.884	66.816	1.00 23.53
MOTA	2485	0	GLU	А	318	19.006	34.273	66.554	1.00 26.34
MOTA	2486	CB	GLU	А	318	15.998	35.484	67.456	1.00 19.11
MOTA	2487	CG	GLU	A	318	14.999	36.480	66.800	1.00 24.06
MOTA	2488	CD	GLU			15.615	37.391	65.758	1.00 40.32
MOTA	2489	OE1	GLU	Α	318	16.833	37.559	65.612	1.00 21.24
MOTA	2490	OE2	GLU			14.703	38.025	65.062	1.00 24.23
ATOM	2491	N	GLY			17.621	32.782	67.494	1.00 17.17
MOTA	2492	CA	GLY	Α	319	18.681	31.955	68.016	1.00 15.31
ATOM	2493	C	GLY			19.673	31.601	66.953	1.00 24.07
MOTA	2494	0	GLY	Α	319	20.860	31.897	67.080	1.00 28.47
ATOM	2495	N	$\mathtt{HIS}$	Α	320	19.165	30.956	65.907	1.00 20.24
MOTA	2496	CA	$\mathtt{HIS}$	Α	320	19.977	30.556	64.790	1.00 20.13
MOTA	2497	C	HIS	Α	320	20.678	31.759	64.142	1.00 24.97
ATOM	2498	0	HIS	A	320	21.855	31.700	63.739	1.00 23.54
MOTA	2499	CB	HIS	Α	320	19.143	29.737	63.791	1.00 20.57
MOTA	2500	CG	HIS	Α	320	18.662	28.426	64.349	1.00 22.57
ATOM	2501		HIS			17.471	28.332	65.058	1.00 22.98
MOTA	2502	CD2	HIS	A	320	19.217	27.176	64.286	1.00 19.52
ATOM	2503	CEl	HIS	A	320	17.336	27.046	65.385	1.00 19.18
MOTA	2504	NE3	HIS	A	320	18.368	26.329	64.952	1.00 18.12
MOTA	2505	N	THR	A	321	19.958	32.875	64.053	1.00 21.61
MOTA	2506	CA	THR	A	321	20.543	34.056	63.478	1.00 22.16
MOTA	2507	C	THR	A	321	21.697	34.552	64.342	1.00 27.47
ATOM	2508	0	THR	A	321	22.789	34.825	63.836	1.00 26.64
MOTA	2509	CB	THR	A	321	19,470	35.097	63.113	1.00 27.88

ATOM	2510	OGI	THR	Δ	321	18.403	34.392	62.523	1.00 27.92
ATOM	2511	CG2				19.999	36.088	62.087	1.00 18.05
MOTA	2512	N	VAL			21.496	34.634	65.659	1.00 21.90
ATOM	2513	CA	VAL	Α	322	22.610	35.054	66.470	1.00 19.44
ATOM	2514	С	VAL	A	322	23.762	34.071	66.285	1.00 24.43
ATOM	2515	0	VAL	A	322	24.926	34.414	66.188	1.00 21.48
ATOM	2516	CB	VAL	Α	322	22.218	35.185	67.928	1.00 20.92
ATOM	2517		VAL			23.406	35.644	68.772	1.00 18.37
ATOM	2518	CG2	VAL			21.093	36.200	68.048	1.00 20.01
ATOM	2519	N			323	23.427	32.811	66.197	1.00 27.08
	2520	CA	TYR			24.446		66.013	1.00 26.26
ATOM							31.803		
ATOM	2521	C			323	25.222	32.036	64.728	1.00 28.26
ATOM	2522	0			323	26.431	31.894	64.643	1.00 27.51
MOTA	2523	CB			323	23.804	30.407	66.020	1.00 25.74
ATOM	2524	CG	TYR			24.867	29.341	65.987	1.00 26.66
MOTA	2525	CD1	TYR	Α	323	25.539	28.957	67.150	1.00 29.09
MOTA	2526	CD2	TYR	A	323	25.199	28.713	64.789	1.00 24.52
ATOM	2527	CE1	TYR	Α	323	26.530	27.974	67.157	1.00 22.56
MOTA	2528	CE2	TYR	A	323	26.178	27.722	64.770	1.00 25.31
MOTA	2529	CZ	TYR	Α	323	26.846	27.370	65.944	1.00 29.19
MOTA	2530	ОН			323	27.823	26.434	65.895	1.00 27.51
ATOM	2531	N			324	24.497	32.408	63.702	1.00 24.82
ATOM	2532	CA			324	25.135	32.638	62.439	1.00 26.04
ATOM	2533	C			324	25.832	33.952	62.417	1.00 30.92
	2534	0			324	26.903	34.045	61.851	1.00 33.76
MOTA									
ATOM	2535	CB			324	24.176	32.537	61.235	1.00 26.21
MOTA	2536	CG			324	23.916	31.112	60.778	1.00 28.46
ATOM	2537		LEU			22.752	31.109	59.791	1.00 28.95
MOTA	2538		LEU			25.169	30.508	60.151	1.00 26.54
MOTA	2539	N			325	25.234	34.976	63.033	1.00 27.04
MOTA	2540	CA			325	25.870	36.303	63.064	1.00 22.88
ATOM	2541	С	GLU			27.282	36.210	63.624	1.00 28.76
MOTA	2542	0	GLU	Α	325	28.250	36.722	63.026	1.00 26.24
ATOM	2543	CB	GLU	A	325	25.016	37.365	63.759	1.00 22.01
ATOM	2544	CG	GLU	A	325	25.827	38.411	64.524	1.00 41.55
ATOM	2545	CD	GLU	Α	325	25.035	39.040	65.646	1.00 72.11
MOTA	2546	OE1	GLU	Α	325	23.866	38.764	65.862	1.00 41.88
ATOM	2547	OE2	GLU	Α	325	25.719	39.922	66.350	1.00 67.15
ATOM	2548	N	ARG	Α	326	27.349	35.479	64.755	1.00 27.84
ATOM	2549	CA	ARG			28.551	35.213	65.511	1.00 28.10
ATOM	2550	C	ARG			29.604	34.457	64.771	1.00 30.90
ATOM	2551	ō	ARG			30.763	34.747	64.976	1.00 33.93
ATOM	2552	CB	ARG			28.334	34.761	66.947	1.00 31.52
ATOM	2553	CG	ARG			27.645	35.864	67.726	1.00 22.20
ATOM	2554	CD			326	27.462	35.572		1.00 28.71
	2555	NE			326	26.727	36.673	69.830	1.00 23.82
ATOM	2556				326	25.805			1.00 26.09
ATOM		CZ					36.556	70.780	
ATOM	2557				326	25.443	35.388	71.305	1.00 23.16
ATOM	2558		ARG			25.220	37.655	71.222	1.00 24.77
ATOM	2559	N	HIS			29.221	33.511	63.918	1.00 29.85
ATOM	2560	CA	HIS			30.207	32.777	63.120	1.00 30.52
ATOM	2561	C	HIS			30.778	33.738	62.085	1.00 35.50
ATOM	2562	0	HIS			31.966	33.777	61.822	1.00 36.74
ATOM	2563	CB	HIS			29.591	31.555	62.407	1.00 31.59
ATOM	2564	CG	HIS	A	327	29.764	30.259	63.176	1.00 34.51
ATOM	2565	ND1	HIS	A	327	30.963	29.913	63.788	1.00 36.17
ATOM	2566		HIS			28.875	29.263	63.432	1.00 35.58
ATOM	2567		HIS			30.778	28.740	64.384	1.00 35.27
ATOM					327	29.532	28.322	64.191	1.00 35.56
	2000	MES	TTO						
ATOM	2568 2569								
ATOM ATOM	2569 2570	N CA	ILE	A		29.902 30.328	34.549 35.517	61.511 60.528	1.00 31.10 1.00 31.66

A TOOM	2571	С	TTE	7	220	31.416	36.407	61.086	1.00 40.12
ATOM	2571		ILE						
MOTA	2572	0	ILE	A	328	32.451	36.615	60.465	1.00 40.81
ATOM	2573	CB	ILE	Α	328	29.175	36.379	59.998	1.00 32.94
ATOM	2574	CG1	ILE	Α	328	28.220	35.570	59.114	1.00 29.53
	2575	CG2	ILE			29.694	37.591	59.201	1.00 30.91
ATOM									
MOTA	2576	CD1	ILE			27.119	36.463	58.535	1.00 32.98
ATOM	2577	N	CYS	Α	329	31.179	36.948	62.266	1.00 37.88
MOTA	2578	CA	CYS	Α	329	32.170	37.810	62.851	1.00 39.54
		C	CYS			33.475	37.092	63.157	1.00 40.19
MOTA	2579								
ATOM	2580	0	CYS			34.567	37.642	62.971	1.00 38.44
MOTA	2581	CB	CYS	Α	329	31.607	38.509	64.083	1.00 42.61
ATOM	2582	SG	CYS	Α	329	30.241	39.595	63.619	1.00 48.14
MOTA	2583	N	GLY			33.332	35.852	63.632	1.00 34.74
MOTA	2584	CA	GLY			34.471	35.030	63.980	1.00 35.20
MOTA	2585	C	GLY	Α	330	35.359	34.854	62.778	1.00 43.66
MOTA	2586	0	GLY	Α	330	36.581	34.857	62.891	1.00 46.79
ATOM	2587	N	ARG			34.709	34.725	61.622	1.00 34.99
							34.562	60.392	1.00 33.19
MOTA	2588	CA	ARG			35.416			
MOTA	2589	C	ARG			36.086	35.863	60.017	1.00 40.63
ATOM	2590	0	ARG	Α	331	37.238	35.914	59.586	1.00 44.40
ATOM	2591	CB	ARG			34.494	34.101	59.269	1.00 31.29
			ARG			33.987	32.685	59.450	1.00 47.66
ATOM	2592	CG							
ATOM	2593	СĎ	ARG	Α	331	34.812	31.722	58.622	1.00 70.36
ATOM	2594	NE	ARG	Α	331	34.461	31.851	57.221	1.00 80.25
MOTA	2595	CZ	ARG	Α	331	33.615	31.023	56.628	1.00100.00
ATOM	2596		ARG			33.055	29.999	57.279	1.00 79.12
								55.341	
MOTA	2597		ARG			33.334	31.216		1.00 89.33
ATOM	2598	N	LEU	Α	332	35.342	36.926	60.172	1.00 32.14
MOTA	2599	CA	LEU	Α	332	35.885	38.198	59.820	1.00 30.02
ATOM	2600	C	LEU	Α	332	37.013	38.612	60.761	1.00 40.33
ATOM	2601	ō	LEU			38.084	38.972	60.286	1.00 40.10
ATOM	2602	CB	LEU			34.772	39.262	59.822	1.00 28.20
MOTA	2603	CG	TEU	Α	332	34.451	39.896	58.469	1.00 28.82
ATOM	2604	CD1	LEU	Α	332	35.007	39.063	57.341	1.00 23.73
ATOM	2605	CD2	<b>LEU</b>	Α	332	32.947	40.114	58.306	1.00 29.76
ATOM	2606	N	PHE			36.744	38.557	62.091	1.00 37.69
							38.997	63.143	1.00 34.12
ATOM	2607	CA	PHE			37.657			
ATOM	2608	С	PHE			38.251	37.956	64.035	1.00 37.99
MOTA	2609	0	PHE	Α	333	39.015	38.293	64.925	1.00 41.67
ATOM	2610	CB	PHE	Α	333	36.970	40.058	64.024	1.00 35.62
ATOM	2611	CG	PHE	А	333	36.209	41.003	63.138	1.00 39.09
ATOM	2612		PHE			36.887	41.923	62.332	1.00 43.22
MOTA	2613	CD2				34.818	40.941	63.045	1.00 42.78
ATOM	2614	CE1	PHE.	Α	333	36.205	42.781	61.464	1.00 44.14
MOTA	2615	CE2	PHE	Α	333	34.123	41.806	62.194	1.00 46.56
ATOM	2616	CZ	PHE	А	333	34.814	42.716	61.389	1.00 43.20
ATOM	2617	N	GLY			37.908	36.706	63.865	1.00 34.36
MOTA	2618	CA	GLY			38.507	35.705	64.763	1.00 32.89
ATOM	2619	С	GLY	Α	334	37.582	34.985	65.767	1.00 32.67
ATOM	2620	0	GLY	Α	334	36.641	35.540	66.340	1.00 33.48
ATOM	2621	N	GLU	Α	335	37.908	33.726	66.003	1.00 23.52
	2622	CA	GLU			37.196	32.875	66.931	1.00 18.13
ATOM									
ATOM	2623	C	GLU			37.278	33.384	68.346	1.00 29.15
MOTA	2624	0	GLU	Α	335	36.357	33.124	69.112	1.00 34.14
ATOM	2625	CB	GLU	Α	335	37.782	31.488	66.929	1.00 17.35
ATOM	2626	CG	GLU			37.041	30.591	67.929	1.00 32.97
ATOM	2627	CD	GLU			35.642	30.305	67.473	1.00 46.14
ATOM	2628		GLU			35.093	30.944	66.588	1.00 39.31
MOTA	2629	OE2	GLU			35.080	29.317	68.132	1.00 32.80
MOTA	2630	N	LYS	Α	336	38.370	34.077	68.706	1.00 24.53
ATOM	2631	CA	LYS			38.468	34.609	70.061	1.00 25.38
		_							

7 TOM	2622	_	TVC	70	226	37 44E	25 726	70 100	1 00 75 30
ATOM	2632	C			336	37.445	35.726	70.169	1.00 35.32
MOTA	2633	0			336	36.908	36.004	71.233	1.00 38.14
MOTA	2634	CB	LYS	Α	336	39.820	35.199	70.421	1.00 25.45
ATOM	2635	CG	LYS	Δ	336	40.871	34.188	70.825	1.00 25.43
		CD					34.846	71.189	
MOTA	2636				336	42.207			1.00 47.10
ATOM	2637	CE	LYS	Α	336	43.325	34.600	70.172	1.00 68.74
MOTA	2638	NZ	LYS	Α	336	44.566	34.072	70.767	1.00 77.62
ATOM	2639	N	PHE	Α	337	37.174	36.364	69.029	1.00 31.52
MOTA	2640	CA			337	36.186	37.442	68.967	1.00 29.34
MOTA	2641	С			337	34.783	36.869	69.083	1.00 31.73
MOTA	2642	0	PHE	Α	337	33.908	37.424	69.742	1.00 35.53
MOTA	2643	CB	PHE	Α	337	36.304	38.336	67.709	1.00 30.04
ATOM	2644	CG	PHE	Δ	337	35.435	39.589	67.747	1.00 35.16
	2645		PHE			35.468	40.459	68.843	1.00 43.88
MOTA									
MOTA	2646		PHE			34.550	39.893	66.709	1.00 40.16
MOTA	2647	CE1	PHE	Α	337	34.688	41.617	68.913	1.00 46.53
ATOM	2648	CE2	PHE	Α	337	33.753	41.040	66.760	1.00 45.62
ATOM	2649	CZ			337	33.830	41.908	67.852	1.00 45.57
MOTA	2650	N			338	34.566	35.733	68.452	1.00 25.52
ATOM	2651	CA	ARG	Α	338	33.266	35.119	68.508	1.00 25.23
ATOM	2652	C	ARG	Α	338	32.944	34.759	69.922	1.00 29.77
ATOM	2653	0	ARG	А	338	31.854	35.025	70.415	1.00 31.81
ATOM	2654	СВ			338	33.186	33.920	67.606	1.00 24.04
ATOM	2655	CG			338	31.839	33.228	67.623	1.00 21.31
MOTA	2656	CD	ARG	Α	338	31.807	32.086	66.599	1.00 30.62
MOTA	2657	NE	ARG	Α	338	32.518	30.892	67.040	1.00 29.87
ATOM	2658	CZ	ARG	Α	338	31.919	29.781	67.466	1.00 26.37
ATOM	2659	NH1				30.616	29.687	67.518	1.00 20.26
MOTA	2660	NH2				32.632	28.737	67.864	1.00 18.57
ATOM	2661	N	HIS	Α	339	33.934	34.190	70.577	1.00 25.88
MOTA	2662	CA	HIS	Α	339	33.813	33.797	71.982	1.00 25.59
ATOM	2663	C	HIS	Δ	339	33.455	34.972	72.892	1.00 27.61
ATOM	2664	0			339	32.615	34.912	73.793	1.00 25.27
ATOM	2665	CB			339	35.065	33.045	72.462	1.00 25.06
ATOM	2666	CG	HIS	Α	339	34.923	31.587	72.155	1.00 28.13
MOTA	2667	ND1	HIS	Α	339	35.049	30.612	73.127	1.00 30.52
ATOM	2668	CD2	HIS	Α	339	34.586	30.970	70.981	1.00 30.89
ATOM	2669	CE1	HIS	Α	339	34.843	29.442	72.535	1.00 30.89
ATOM	2670		HIS			34.546	29.616	71.245	1.00 31.36
ATOM	2671	И			340	34.103	36.065	72.608	1.00 24.54
MOTA	2672	CA	PHE	A	340	33.892	37.278	73.334	1.00 25.36
ATOM	2673	C	PHE	Α	340	32.452	37.762	73.216	1.00 32.47
MOTA	2674	0	PHE	Α	340	31.822	38.222	74.190	1.00 32.78
ATOM	2675	CB			340	34.876	38.309	72.801	1.00 26.03
				_					
ATOM	2676	CG	PHE			34.654	39.671	73.346	1.00 26.47
MOTA	2677		PHE			35.238	40.047	74.559	1.00 24.59
MOTA	2678	CD2	PHE	Α	340	33.902	40.592	72.616	1.00 28.22
ATOM	2679	CE1	PHE	Α	340	35.063	41.330	75.072	1.00 21.58
ATOM	2680		PHE			33.715	41.879	73.115	1.00 29.13
		CZ							
MOTA	2681		PHE			34.280	42.225	74.345	1.00 25.28
MOTA	2682	N	asn			31.944	37.663	72.004	1.00 28.41
ATOM	2683	CA	ASN	Α	341	30.600	38.084	71.728	1.00 29.60
ATOM	2684	C	ASN	Α	341	29.665	37.110	72.379	1.00 38.52
ATOM	2685	0	ASN			28.699	37.511	73.029	1.00 42.88
ATOM	2686	CB	ASN			30.322		70.224	1.00 30.01
							38.274		
ATOM	2687	CG	ASN			31.159	39.374	69.587	1.00 52.80
MOTA	2688		ASN			31.528	39.284	68.404	1.00 60.88
MOTA	2689	ND2	ASN	A	341	31.442	40.427	70.359	1.00 41.02
ATOM	2690	N	ALA	Α	342	29.994	35.826	72.239	1.00 28.24
ATOM					342	29.195	34.800	72.877	1.00 26.95
	2691	C 44							
ATOM	2691 2692	CA C	ALA			29.013	35.134	74.393	1.00 25.93

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74.897
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MOTA
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              CH2 TRP A 346
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ATOM
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MOTA
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                                                   80.914
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MOTA
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ATOM
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MOTA
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MOTA
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                                                   84.417
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MOTA
       2753
              OE1 GLN A 350
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ATOM	2754	NE2	GLN	A	350	25.588	37.727	83.127	1.00 36.58
MOTA	2755	N	asn	Α	351	20.838	39.696	82.201	1.00 22.64
MOTA	2756	CA	ASN	A	351	20.163	40.960	82.273	1.00 26.10
MOTA	2757	C	ASN	Α	351	18.661	40.780	82.083	1.00 37.49
MOTA	2758	0	asn	A	351	17.890	41.098	82.977	1.00 41.41
MOTA	2759	CB	ASN	A	351	20.769	42.021	81.341	1.00 20.74
ATOM	2760	CG	ASN	Α	351	22.118	42.477	81.847	1.00 23.25
ATOM	2761	OD1	ASN	Α	351	22.692	41.875	82.771	1.00 26.88
ATOM	2762	ND2	ASN	Α	351	22.644	43.530	81.247	1.00 32.93
ATOM	2763	N			352	18.228	40.252	80.938	1.00 32.84
ATOM	2764	CA	SER	Α	352	16.784	40.041	80.715	1.00 34.27
ATOM	2765	С			352	16.107	39.135	81.784	1.00 31.72
MOTA	2766	0			352	14.927	39.266	82.189	1.00 28.64
MOTA	2767	CB			352	16.503	39.531	79.301	1.00 42.57
ATOM	2768	OG			352	17.506	39.979	78.407	1.00 49.17
ATOM	2769	N	VAL			16.874	38.188	82.247	1.00 21.90
ATOM	2770	CA	VAL			16.322	37.351	83.234	1.00 22.13
ATOM	2771	C	VAL			16.068	38.122	84.516	1.00 36.22
ATOM	2772	ō	VAL			14.958	38.076	85.052	1.00 37.69
ATOM	2773	СВ	VAL			17.137	36.070	83.419	1.00 20.84
MOTA	2774		VAL			16.632	35.256	84.634	1.00 15.06
MOTA	2775	CG2	VAL			16.968	35.284	82.105	1.00 20.93
ATOM	2776	N	LYS			17.086	38.847	85.002	1.00 30.67
ATOM	2777	CA	LYS			16.880	39.587	86.221	1.00 31.71
ATOM	2778	C	LYS			15.660	40.474	86.098	1.00 36.17
ATOM	2779	ō	LYS			14.808	40.582	86.980	1.00 35.80
ATOM	2780	CB	LYS	-		18.099	40.396	86.624	1.00 35.28
ATOM	2781	CG	LYS			17.841	41.303	87.818	1.00 51.51
MOTA	2782	CD	LYS			19.038	41.405	88.749	1.00 60.46
MOTA	2783	CE	LYS			19.198	42.780	89.383	1.00 50.09
ATOM	2784	NZ	LYS			20.596	43.133	89.657	1.00 63.77
ATOM	2785	N	THR			15.608	41.108	84.962	1.00 32.63
ATOM	2786	CA	THR			14.562	42.025	84.610	1.00 34.03
ATOM	2787	C	THR			13.129	41.422	84.578	1.00 42.11
ATOM	2788	ō	THR			12.216	42.006	85.154	1.00 40.96
ATOM	2789	CB	THR			14.974	42.736	83.308	1.00 41.11
MOTA	2790	OG1	THR			16.071	43.615	83.542	1.00 29.85
ATOM	2791	CG2	THR			13.798	43.438	82.656	1.00 45.50
ATOM	2792	N	PHE			12.895	40.273	83.908	1.00 33.89
ATOM	2793	CA	PHE			11.556	39.729	83.860	1.00 29.29
ATOM	2794	C	PHE			11.209	39.070	85.147	1.00 31.93
ATOM	2795	0	PHE	А	356	10.089	39.152	85.642	1.00 33.85
ATOM	2796	CB	PHE			11.460	38.645	82.785	1.00 33.30
ATOM ·	2797	CG	PHE	Α	356	11.187	39.196	81.416	1.00 36.54
MOTA	2798	CD1	PHE	A	356	10.106	40.054	81.224	1.00 42.38
ATOM	2799		PHE			11.985	38.858	80.320	1.00 38.62
ATOM	2800	CE1	PHE	A	356	9.831	40.596	79.968	1.00 44.75
ATOM	2801		PHE			11.723	39.384	79.055	1.00 43.46
ATOM	2802	CZ	PHE	Α	356	10.649	40.261	78.890	1.00 43.86
ATOM	2803	N	GLY	А	357	12.212	38.386		1.00 30.41
ATOM	2804	CA	GLY			12.152	37.564	86.864	1.00 29.17
MOTA	2805	C	GLY			12.446	36.100	86.438	1.00 28.92
ATOM	2806	0	GLY			12.008	35.642	85.372	1.00 27.33
ATOM	2807	N	GLU			13.211	35.382	87.243	1.00 21.27
ATOM	2808	CA	GLU			13.590	34.040	86.898	1.00 23.10
ATOM	2809	C	GLU			12.424	33.104	86.747	1.00 31.53
ATOM	2810	0	GLU			12.581	31.972	86.294	1.00 30.92
ATOM	2811	СВ	GLU			14.596	33.473	87.880	1.00 25.36
ATOM	2812	CG	GLU			14.011	33.436	89.301	1.00 38.73
MOTA	2813	CD	GLU			15.011	33.037	90.345	1.00 56.34
ATOM	2814		GLU			16.026	32.446	90.071	1.00 50.55

ATOM	2815	OE2	GLU 2	A	358	14.678	33.403	91.564	1.00	75.65
MOTA	2816	N	THR I			11.246	33.542	87.139		27.87
ATOM	2817	CA	THR I			10.154	32.625	86.970		25.66
ATOM	2818	C	THR			9.236	33.152	85.906		25.96
ATOM	2819	o	THR			8.247	32.528	85.533		25.58
		СВ								
ATOM	2820		THR I			9.423	32.341	88.253		25.00
ATOM	2821	OG1				8.908	33.565	88.692		33.10
MOTA	2822	CG2	THR I			10.406	31.785	89.273		14.43
ATOM	2823	N	HIS A			9.602	34.310	85.407		20.75
MOTA	2824	CA	HIS I			8.837	34.902	84.363		22.77
MOTA	2825	С	HIS I			8.823	34.034	83.130		35.30
MOTA	2826	0	HIS A			9.858	33.611	82.620		37.42
MOTA	2827	CB	HIS A	A	360	9.294	36.291	83.982		23.18
MOTA	2828	CG	HIS A	A	360	8.207	36.908	83.219	1.00	27.05
MOTA	2829	ND1	HIS A	A	360	7.532	38.009	83.691	1.00	29.34
MOTA	2830	CD2	HIS A	Α	360	7.651	36.545	82.059	1.00	29.91
MOTA	2831	CE1	HIS A	A	360	6.596	38.315	82.806	1.00	27.94
ATOM	2832	NE2	HIS A	A	360	6.651	37.440	81.812	1.00	29.60
ATOM	2833	N	PRO Z	A	361	7.606	33.817	82.666	1.00	32.40
ATOM	2834	CA	PRO A	Ą	361	7.301	32.999	81.519	1.00	29.46
ATOM	2835	C	PRO A	Α	361	7.862	33.478	80.224	1.00	30.59
ATOM	2836	0	PRO Z			7.907	32.737	79.248		33.00
ATOM	2837	СВ	PRO Z			5.770	32.963	81.478		30.74
ATOM	2838	CG	PRO A			5.311	33.172	82.927		34.96
ATOM	2839	CD	PRO A			6.463	33.869	83.627		31.82
MOTA	2840	N	PHE A			8.289	34.712	80.179		26.32
ATOM	2841	CA	PHE 2			8.823	35.173	78.933		25.68
ATOM	2842	CA	PHE A			10.261	34.781	78.829		29.73
		0						77.870		
ATOM	2843		PHE A			10.906	35.131			32.02
ATOM	2844	CB	PHE A			8.643	36.677	78.723		28.12
ATOM	2845	CG	PHE A			7.194	37.105	78.629		30.03
ATOM	2846		PHE A			6.204	36.276	78.098		30.92
ATOM	2847		PHE A			6.804	38.372	79.051		32.04
ATOM	2848		PHE A			4.864	36.655	77.998		26.59
ATOM	2849	CE2	PHE A			5.470	38.773	78.952		32.40
ATOM	2850	CZ	PHE A			4.495	37.920	78.435		26.37
MOTA	2851	N 	THR A			10.730	34.049	79.843		27.22
MOTA	2852	CA	THR A			12.102	33.575	79.943		27.52
MOTA	2853	C	THR A			12.251	32.132	79.504		29.28
MOTA	2854	0	THR A			13.331	31.560	79.524		29.42
MOTA	2855	CB	THR A			12.697	33.777	81.360		31.67
MOTA	2856	OG1	THR A			12.279	32.745	82.218		26.17
MOTA	2857	CG2	THR A			12.278	35.118	81.930		31.62
MOTA	2858	N	LYS A			11.148	31.530	79.113		23.08
MOTA	2859	CA	LYS A			11.174	30.160	78.664		20.50
MOTA	2860	С	LYS A			11.556	30.270	77.217		28.83
MOTA	2861	0	LYS A			11.139	31.239	76.570		29.80
MOTA	2862	CB	LYS A	4	364	9.766	29.584	78.667	1.00	23.55
ATOM	2863	CG	LYS A	Ą	364	9.252	29.134	80.022	1.00	40.85
MOTA	2864	CD	LYS A	4	364	7.761	29.369	80.162	1.00	44.83
MOTA	2865	CE	LYS A	4	364	7.131	28.492	81.224	1.00	66.38
ATOM	2866	NZ	LYS A	4	364	6.063	27.638	80.691	1.00	91.70
MOTA	2867	N	LEU A	4	365	12.332	29.328	76.698	1.00	23.57
MOTA	2868	CA	LEU A	1	365	12.699	29.420	75.312	1.00	23.95
ATOM	2869	C	LEU A			11.414	29.419	74.445		35.57
ATOM	2870	0	LEU 2			11.166	30.369	73.708		34.58
MOTA	2871	СВ	LEU A			13.702	28.303	75.021		25.08
ATOM	2872	CG	LEU A			14.456	28.372	73.702		31.15
ATOM	2873		LEU A			14.987	29.778	73.466		33.16
ATOM	2874	CD2				15.609	27.353	73.781		30.62
ATOM	2875	N	VAL I			10.572	28.360	74.564		35.62
	20,0		7 P	•	230	10.5,2	20.500			22.02

ATOM	2876	CA	VAL	ת	366	9.294	28.232	73.840	1.00 32.10
						8.211			
ATOM	2877	C	VAL				28.911	74.694	1.00 33.14
MOTA	2878	0	VAL			7.982	28.470	75.808	1.00 34.20
MOTA	2879	CB	VAL	Α	366	8.936	26.739	73.568	1.00 34.73
ATOM	2880	CG1	VAL	Α	366	7.558	26.605	72.933	1.00 34.88
ATOM	2881	CG2	VAL	Α	366	9.922	26.012	72.649	1.00 32.65
ATOM	2882	N	VAL			7.562	29.990	74.211	1.00 28.76
MOTA	2883	CA.	VAL			6.532	30.700	74.987	1.00 28.27
ATOM	2884	C	VAL			5.161	30.613	74.420	1.00 30.62
MOTA	2885	0	VAL			4.994	30.509	73.235	1.00 34.30
MOTA	2886	CB	VAL			6.773	32.185	75.061	1.00 33.45
ATOM	2887	CG1	VAL	Α	367	8.178	32.478	75.565	1.00 33.03
ATOM	2888	CG2	VAL	A	367	6.498	32.804	73.693	1.00 33.18
ATOM	2889	N	ASP	Α	368	4.168	30.722	75.290	1.00 29.27
ATOM	2890	CA	ASP			2.764	30.771	74.984	1.00 27.67
ATOM	2891	C	ASP			2.315	32.207	74.862	1.00 26.94
MOTA	2892	0	ASP			2.283	32.975	75.830	1.00 23.11
MOTA	2893	CB	ASP			1.990	30.073	76.100	1.00 26.80
MOTA	2894	CG	ASP			0.572	29.781	75.613	1.00 37.90
MOTA	2895	OD1	ASP	Α	368	0.276	30.123	74.481	1.00 38.93
ATOM	2896	OD2	ASP	Α	368	-0.215	29.217	76.380	1.00 38.59
ATOM	2897	N	LEU	Α	369	2.027	32.588	73.622	1.00 26.55
ATOM	2898	CA	LEU			1.643	33.953	73.373	1.00 27.39
ATOM	2899	C	LEU			0.138	34.105	73.301	1.00 30.74
							34.979		
ATOM	2900	0	LEU			-0.372		72.648	1.00 30.68
ATOM	2901	CB	LEU			2.281	34.395	72.064	1.00 26.06
MOTA	2902	CG	<b>LEU</b>			3.759	34.760	72.229	1.00 26.80
MOTA	2903	CD1	LEU	Α	369	4.343	35.415	70.994	1.00 24.30
MOTA	2904	CD2	LEU	Α	369	4.014	35.728	73.384	1.00 21.81
ATOM	2905	N	THR	Α	370	-0.577	33.154	73.953	1.00 30.26
ATOM	2906	CA	THR	Α	370	-2.022	33.306	74.093	1.00 31.38
ATOM	2907	C	THR			-2.355	34.519	74.941	1.00 38.62
ATOM	2908	ō	THR			-1.821	34.714	76.027	1.00 38.84
ATOM	2909	CB	THR			-2.601	32.056	74.750	1.00 34.04
									1.00 29.99
ATOM	2910		THR			-2.472	30.949	73.873	
ATOM	2911	CG2	THR			-4.091	32.266	75.052	1.00 26.40
MOTA	2912	N	ASP			-3.173	35.387	74.363	1.00 37.89
MOTA	2913	CA	ASP	Α	371	-3.641	36.612	75.012	1.00 37.85
ATOM	2914	C	ASP	Α	371	-2.557	37.636	75.255	1.00 40.92
MOTA	2915	0	ASP	Α	371	-2.784	38.625	75.933	1.00 41.63
MOTA	2916	CB	ASP	Α	371	-4.519	36.375	76.245	1.00 39.88
MOTA	2917	CG	ASP	Α	371	-5.805	35.733	75.798	1.00 51.30
ATOM	2918		ASP			-6.373	36.072	74.761	1.00 50.39
ATOM	2919		ASP			-6.206	34.754	76.583	1.00 48.61
	2920	N	ILE			-1.387	37.398	74.664	1.00 36.37
ATOM			ILE			-0.259	38.283	74.817	1.00 34.61
ATOM	2921	CA							
MOTA	2922	C			372	0.203	39.018	73.555	1.00 35.46
MOTA	2923	0	ILE			0.545	38.400	72.548	1.00 36.69
MOTA	2924	CB	ILB	A	372	0.920	37.511	75.381	1.00 36.51
MOTA	2925	CG1	ILE	Α	372	0.658	37.195	76.842	1.00 37.01
MOTA	2926	CG2	ILE	A	372	2.121	38.441	75.281	1.00 35.52
ATOM	2927	CD1	ILE	Α	372	1.268	38.261	77.747	1.00 54.33
MOTA	2928	N	ASP			0.254	40.345	73.601	1.00 25.92
ATOM	2929	CA	ASP			0.747	41.053	72.450	1.00 23.77
						2.263	40.781	72.360	1.00 31.40
MOTA	2930	C	ASP						
ATOM	2931	0	ASP			3.040	41.002	73.305	1.00 32.80
MOTA	2932	CB	ASP			0.408	42.543	72.519	1.00 25.08
MOTA	2933	CG	ASP			1.064	43.356	71.418	1.00 43.24
MOTA	2934		ASP			1.861	42.894	70.616	1.00 45.30
MOTA	2935	OD2	ASP	A	373	0.668	44.610	71.395	1.00 38.59
ATOM	2936	N	PRO	Α	374	2.709	40.267	71.225	1.00 29.51

30034	2027	CA	DDA		224	4 333	20 042	77 777	1 00 20 52
MOTA	2937	CA	PRO			4.123	39.943	71.132	1.00 28.52
MOTA	2938	С	PRO			5.029	41.090	71.506	1.00 32.54
ATOM	2939	0	PRO	Α	374	6.019	40.905	72.217	1.00 29.62
MOTA	2940	СВ	PRO	А	374	4.390	39.421	69.714	1.00 28.88
ATOM	2941	CG	PRO	Α	374	3.028	39.278	69.032	1.00 32.27
ATOM	2942	CD	PRO	A	374	1.966	39.786	70.008	1.00 28.84
ATOM	2943	N	ASP			4.660	42.257	70.981	1.00 26.85
ATOM	2944	CA	ASP			5.357	43.511	71.154	1.00 24.25
	2945	C	ASP			5.695	43.783	72.628	1.00 33.10
MOTA									
MOTA	2946	0	ASP			6.648	44.494	72.988	1.00 30.67
ATOM	2947	CB	ASP			4.507	44.617	70.509	1.00 24.46
MOTA	2948	CG	ASP			4.753	44.836	69.033	1.00 30.08
MOTA	2949	OD1	ASP	Α	375	5.703	44.393	68.411	1.00 33.47
MOTA	2950	OD2	ASP	Α	375	3.852	45.609	68.491	1.00 38.41
MOTA	2951	N	VAL	Α	376	4.885	43.161	73.477	1.00 30.21
ATOM	2952	CA	VAL	Α	376	5.001	43.232	74.904	1.00 25.40
ATOM	2953	C	VAL	A	376	5.879	42.106	75.431	1.00 37.27
ATOM	2954	0	VAL			6.599	42.299	76.394	1.00 42.46
ATOM	2955	CB	VAL			3.638	43.099	75.550	1.00 22.48
	2956	CG1				3.799	42.533	76.975	1.00 21.25
MOTA			VAL						1.00 18.29
ATOM	2957	CG2				2.926	44.440	75.547	
ATOM	2958	N	ALA			5.811	40.905	74.831	1.00 30.48
MOTA	2959	CA	ALA			6.671	39.793	75.288	1.00 27.04
MOTA	2960	C	ALA			8.149	39.911	74.797	1.00 28.15
MOTA	2961	0	ALA	Α	377	9.077	39.325	75.312	1.00 27.36
MOTA	2962	CB	ALA	A	377	6.091	38.433	74.891	1.00 26.74
MOTA	2963	N	TYR	A	378	8.376	40.692	73.768	1.00 25.81
MOTA	2964	CA	TYR	Α	378	9.683	40.876	73.161	1.00 25.43
MOTA	2965	С	TYR	A	378	10.862	41.194	74.057	1.00 30.49
MOTA	2966	0	TYR			10.873	42.204	74.747	1.00 32,35
ATOM	2967	CB	TYR			9.549	41.924	72.068	1.00 26.20
ATOM	2968	CG	TYR			10.804	42.168	71.327	1.00 19.90
ATOM	2969	CD1				11.256	41.231	70.406	1.00 18.53
ATOM	2970	CD2	TYR			11.536	43.331	71.543	1.00 18.47
			TYR			12.444	41.436	69.716	1.00 15.47
ATOM	2971								
ATOM	2972	CE2	TYR			12.719	43.555	70.840	1.00 18.77
ATOM	2973	CZ	TYR			13.161	42.609	69.920	1.00 16.37
MOTA	2974	OH	TYR			14.309	42.811	69.212	1.00 32.30
MOTA	2975	N	SER			11.879	40.317	73.977	1.00 23.03
ATOM	2 <i>9</i> 76	CA	SER			13.115	40.430	74.725	1.00 18.13
MOTA	2977	C	SER	Α	379	14.267	39.777	73.970	1.00 20.60
MOTA	2978	0	SER	Α	379	14.100	39.334	72.843	1.00 18.46
MOTA	2979	CB	SER	A	379	12.976	39.740	76.067	1.00 23.56
MOTA	2980	OG	SER	A	379	12.805	38.329	75.883	1.00 37.26
ATOM	2981	N	SER	A	380	15.424	39.697	74.651	1.00 23.65
MOTA	2982	CA	SER	A	380	16.701	39.084	74.222	1.00 26.09
ATOM	2983	C	SER			16.669	37.571	74.457	1.00 28.37
ATOM	2984	ō	SER			17.480	36.785	73.975	1.00 30.81
ATOM	2985	СВ	SER			17.889	39.588	75.062	1.00 31.60
ATOM	2986	OG	SER			18.036	41.000	75.033	1.00 42.48
			VAL				37.188	75.260	1.00 18.04
MOTA	2987	N	VAL			15.718		75.598	
MOTA	2988	CA				15.595	35.812		1.00 14.91
ATOM	2989	C	VAL			15.708	34.897	74.419	1.00 20.31
ATOM	2990	0	VAL			16.620	34.091	74.330	1.00 27.64
ATOM	2991	CB	VAL			14.408	35.546	76.501	1.00 16.34
MOTA	2992		VAL			14.284	34.062	76.734	1.00 17.26
MOTA	2993	CG2	VAL	A	381	14.687	36.204	77.829	1.00 13.94
MOTA	2994	N	PRO	A	382	14.797	35.005	73.489	1.00 16.53
ATOM	2995	CA	PRO	A	382	14.886	34.139	72.324	1.00 17.21
ATOM	2996	C	PRO	Α	382	16.222	34.230	71.634	1.00 24.01
MOTA	2997	0	PRO	A	382	16.709	33.192	71.207	1.00 27.79

ATOM	2998	CB	PRO	Α	382	13.777	34.514	71.351	1.00 17.20
ATOM	2999	CG	PRO	A	382	13.003	35.618	72.033	1.00 18.32
ATOM	3000	CD	PRO	A	382	13.627	35.873	73.399	1.00 12.12
ATOM	3001	N	TYR			16.809	35.447	71.542	1.00 19.33
MOTA	3002	CA	TYR			18.112	35.648	70.902	1.00 19.70
ATOM	3003	С	TYR			19.246	34.953	71.651	1.00 28.79
MOTA	3004	0	TYR	A	383	19.980	34.117	71.104	1.00 31.38
MOTA	3005	CB	TYR	A	383	18.468	37.135	70.894	1.00 21.02
ATOM	3006	CG	TYR	Α	383	17.593	37.968	70.011	1.00 23.86
ATOM	3007	CD1	TYR			16.290	38.277	70.404	1.00 28.36
ATOM	3008	CD2				18.067	38.450	68.784	1.00 20.93
ATOM	3009		TYR			15.473	39.054	69.576	1.00 30.88
ATOM	3010	CE2	TYR			17.272	39.244	67.957	1.00 18.71
MOTA	3011	CZ	TYR			15.967	39.533	68.358	1.00 25.95
ATOM	3012	ОН	TYR			15.171	40.294	67.556	1.00 30.84
ATOM	3013	N	GLU	Α	384	19.389	35.333	72.921	1.00 20.17
ATOM	3014	CA	GLU	A	384	20.419	34.857	73.803	1.00 17.57
ATOM	3015	С	GLU	Α	384	20.188	33.506	74.405	1.00 22.88
ATOM	3016	0	GLU			21.151	32.775	74.669	1.00 25.65
ATOM	3017	СВ	GLU			20.833	35.973	74.773	1.00 20.44
MOTA	3018	CG	GLU			21.263	37.202	73.944	1.00 15.21
MOTA	3019	CD	GLU			22.539	36.937	73.184	1.00 26.58
ATOM	3020	OE1	GLU	Α	384	23.185	35.915	73.293	1.00 17.84
ATOM	3021	OE2	GLU	Α	384	22.887	37.915	72.400	1.00 21.88
MOTA	3022	N	LYS	A	385	18.935	33.116	74.610	1.00 20.33
ATOM	3023	CA	LYS	Α	385	18.736	31.767	75.146	1.00 20.05
MOTA	3024	С	LYS	Α	385	18.865	30.716	74.028	1.00 27.19
ATOM	3025	0	LYS			19.420	29.621	74.219	1.00 31.66
АТОМ	3026	СВ	LYS			17.507	31.577	76.014	1.00 21.51
ATOM	3027	CG	LYS			17.676	30.384	76.953	1.00 22.29
							29.820	77.518	1.00 19.87
ATOM	3028	CD	LYS			16.386			
ATOM	3029	CE	LYS			16.049	30.277	78.937	1.00 31.60
MOTA	3030	NZ	LYS			14.783	29.694	79.441	1.00 30.38
MOTA	3031	N	GLY			18.364	31.084	72.832	1.00 20.72
ATOM	3032	CA	GLY			18.453	30.248	71.637	1.00 17.41
MOTA	3033	C	GLY			19.924	30.106	71.298	1.00 20.81
MOTA	3034	0	GLY	A	386	20.396	29.001	71.225	1.00 22.50
ATOM	3035	И	PHE	Α	387	20.683	31.228	71.163	1.00 20.30
MOTA	3036	CA	PHE	Α	387	22.137	31.158	70.900	1.00 19.92
MOTA	3037	C	PHE	A	387	22.840	30.263	71.905	1.00 29.09
MOTA	3038	0	PHE	Α	387	23.685	29.478	71.530	1.00 32.80
ATOM	3039	СВ	PHE	Α	387	22.852	32.519	70.955	1.00 20.07
MOTA	3040	CG	PHE			24.344	32.358	70.872	1.00 19.41
ATOM	3041		PHE			24.949	32.163	69.631	1.00 19.67
	3042		PHE			25.157	32.373	72.007	1.00 25.27
ATOM	3043		PHE			26.329	31.977	69.525	1.00 20.88
ATOM									
ATOM	3044		PHE			26.542	32.202	71.916	1.00 28.83
MOTA	3045	CZ	PHE			27.131	31.981	70.668	1.00 23.24
MOTA	3046	N	ALA			22.495	30.381	73.203	1.00 25.48
ATOM	3047	CA	ALA	A	388	23.133	29.556	74.242	1.00 23.14
ATOM	3048	C	ALA	A	388	22.872	28.108	74.055	1.00 32.10
MOTA	3049	0	ALA	A	388	23.757	27.282	74.258	1.00 37.82
ATOM	3050	CB	ALA	A	388	22.717	29.932	75.633	1.00 23.02
ATOM	3051	N	LEU	Α	389	21.636	27.793	73.691	1.00 26.31
ATOM	3052	CA	LEU			21.275	26.405	73.460	1.00 21.42
ATOM	3053	C	LEU			22.189	25.906	72.372	1.00 27.91
ATOM	3054	ō	LEU			22.865	24.900	72.532	1.00 29.25
ATOM	3055	CB	LEU			19.841	26.300	72.937	1.00 19.24
								72.632	1.00 17.17
MOTA	3056	CG	LEU			19.427	24.868		
ATOM	3057		LEU		389	19.717 17.943	24.017 24.808	73.844 72.328	1.00 14.63 1.00 10.16
ATOM	3058	CIT C							

ATOM	3059	N	LEU A	39	0 22.217	26.659	71.262	1.00 24.49
MOTA	3060	CA	LEU A			26.340	70.107	1.00 25.05
MOTA	3061	C	LEU A			26.256	70.383	1.00 32.31
ATOM	3062	ō	LEU A			25.301	69.932	1.00 33.60
							68.844	1.00 23.33
ATOM	3063	CB	LEU A			27.152		
MOTA	3064	CG	LEU 1	_		27.026	68.442	1.00 23.38
MOTA	3065		TEO 1			28.025	67.334	1.00 20.84
MOTA	3066	CD2	LEU A			25.591	68.017	1.00 18.86
MOTA	3067	N	PHE I	39	1 25.058	27.231	71.127	1.00 28.52
ATOM	3068	CA	PHE A	39	1 26.480	27.236	71.494	1.00 27.82
ATOM	3069	С	PHE I	39	1 26.813	25.992	72.312	1.00 28.67
MOTA	3070	0	PHE A			25.331	72.148	1.00 26.96
ATOM	3071	СВ	PHE A			28.455	72.341	1.00 28.60
MOTA	3072	CG	PHE A			28.786	72.283	1.00 30.53
MOTA	3072		PHE A			28.816	71.064	1.00 35.08
			PHE A				73.440	1.00 36.52
MOTA	3074					29.063		
ATOM	3075		PHE A			29.142	70.983	1.00 37.61
MOTA	3076	CE2	PHE A			29.383	73.382	1.00 40.61
ATOM	3077	cz	PHE A			29.432	72.148	1.00 37.64
MOTA	3078	N	TYR A	39	2 25.913	25.699	73.225	1.00 24.90
MOTA	3079	CA	TYR A	39	2 26.044	24.550	74.065	1.00 24.66
ATOM	3080	С	TYR A	39	2 26.106	23.298	73.186	1.00 34.30
MOTA	3081	0	TYR A	39	2 27.058	22.558	73.268	1.00 37.51
ATOM	3082	CB	TYR A			24.501	74.967	1.00 26.39
ATOM	3083	CG	TYR A			23.181	75.678	1.00 31.99
ATOM	3084	CD1	TYR A			22.715	76.625	1.00 35.17
	3085	CD2	TYR A			22.397	75.432	1.00 32.49
ATOM						21.512	77.306	1.00 32.45
ATOM	3086	CE1	TYR A				76.094	1.00 39.01
ATOM	3087	CE2	TYR A			21.184		
MOTA	3088	CZ	TYR A			20.743	77.035	1.00 34.08
ATOM	3089	OH	TYR A			19.564	77.683	1.00 36.46
MOTA	3090	N	LEU 1			23.067	72.310	1.00 31.02
MOTA	3091	CA	LEU A	39	3 25.043	21.889	71.410	1.00 29.65
MOTA	3092	C	TEA Y	39	3 26.274	21.616	70.507	1.00 32.03
ATOM	3093	0	LEU A	39	3 26.664	20.468	70.267	1.00 27.90
MOTA	3094	CB	LEU A	39	3 23.758	21.905	70.552	1.00 28.85
MOTA	3095	CG	LEU A	39	3 22.489	21.688	71.375	1.00 30.33
MOTA	3096	CD1	LEU A	39	3 21.256	22.047	70.559	1.00 27.38
MOTA	3097	CD2	LEU A	39	3 22.400	20.246	71.865	1.00 29.76
MOTA	3098	N	GLU A	39	4 26.841	22.701	69.980	1.00 30.84
MOTA	3099	CA	GLU A			22.727	69.118	1.00 30.05
ATOM	3100	C	GLU A			22.214	69.868	1.00 39.16
ATOM	3101	ō	GLU A			21.595	69.299	1.00 42.14
ATOM	3102	СВ	GLU A			24.204	68.756	1.00 31.03
ATOM	3103	CG	GLU A			24.406	68.376	1.00 37.11
			GLU A			25.830	68.208	1.00 45.20
ATOM	3104	CD						1.00 45.20
MOTA	3105		GLU A			26.609	67.471	
ATOM	3106		GLU A			26.133	68.927	1.00 39.77
MOTA	3107	N	GLN A			22.534	71.160	1.00 34.20
ATOM	3108	CA	GLN A			22.139	72.029	1.00 32.86
ATOM	3109	C	GLN A	39	5 30.143	20.690	72.435	1.00 38.65
ATOM	3110	0	GIM 3	39	5 31.066	19.899	72.507	1.00 38.67
MOTA	3111	CB	GLN A	39	5 30.474	23.051	73.287	1.00 33.17
MOTA	3112	CG	GLN A	39	5 30.831	24.540	72.996	1.00 13.79
MOTA	3113	CD	GLN A			25.354	74.247	1.00 37.45
ATOM	3114	OE1				24.959	75.407	1.00 26.89
ATOM	3115	NE2	GLN A			26.523	74.010	1.00 31.99
MOTA	3116	N	LEU 2			20.352	72.682	1.00 38.68
MOTA	3117	CA	LEU A			19.015	73.083	1.00 38.49
ATOM	3118	G.	LEU A			18.017	71.924	1.00 39.28
MOTA	3119	0	LEU 1			16.871	72.100	1.00 35.20
ATOM.	2112	•	TIEO Y		0 29.012	10.0/1	,2.100	T.00 44.1/

MOTA	3120	CB	LEU	Α	396	27.055	19.072	73.628	1.00 37.93
ATOM	3121	CG	LEU	Α	396	26.389	17.732	73.946	1.00 42.72
MOTA	3122	CD1	LEU	A	396	26.436	17.489	75.445	1.00 45.42
MOTA	3123	CD2	LEU	Α	396	24.917	17.709	73.527	1.00 43.81
ATOM	3124	N	LEU	A	397	28.303	18.456	70.730	1.00 28.48
ATOM	3125	CA	LEU	A	397	28.337	17.595	69.589	1.00 25.49
ATOM	3126	С	LEU	Α	397	29.620	17.609	68.771	1.00 36.86
ATOM	3127	0	LEU	Α	397	29.596		67.599	1.00 39.85
MOTA	3128	CB			397	27.156		68.686	1.00 23.73
ATOM	3129	CG			397	25.843		69.401	1.00 25.82
ATOM	3130		LEU			24.740		68.669	1.00 22.99
ATOM	3131	CD2	LEU			25.525		69.452	1.00 27.30
ATOM	3132	N			398	30.731		69.342	1.00 33.98
MOTA	3133	CA			398	31.993		68.617	1.00 34.14
ATOM	3134	c			398	32.547		67.889	1.00 38.92
ATOM	3135	ō			398	33.502		67.115	1.00 39.98
ATOM	3136	N			399	32.001		68.105	1.00 33.01
ATOM	3137	CA			399	32.543		67.440	1.00 30.35
ATOM	3138	C			399	31.713		66.365	1.00 30.33
		0			399	30.800			1.00 31.72
MOTA	3139	Ŋ			400	32.076		65.762	
MOTA	3140							66.124	1.00 33.01
ATOM	3141	CA			400	31.429		65.151	1.00 35.02
ATOM	3142	C			400	31.379		63.750	1.00 43.93
ATOM	3143	0			400	30.360		63.045	1.00 40.14
ATOM	3144	CB			400	32.293		65.111	1.00 35.73
MOTA	3145	CG			400	33.539		65.948	1.00 38.03
ATOM	3146	CD			400	33.423		66.517	1.00 33.92
ATOM	3147	N			401	32.512		63.345	1.00 43.85
ATOM	3148	CA			401	32.597		62.042	1.00 42.92
MOTA	3149	C			401	31.491		61.878	1.00 37.92
ATOM	3150	0			401	30.810		60.866	1.00 33.79
ATOM	3151	CB			401	33.996		61.789	1.00 45.93
MOTA	3152	CG			401	34.578		60.398	1.00 69.62
ATOM	3153	CD			401	35.603		59.911	1.00100.00
MOTA	3154		GLU			36.702		60.427	1.00100.00
ATOM	3155	OE2	GLU			35.195		58.865	1.00 93.16
ATOM	3156	N			402	31.317		62.902	1.00 34.58
ATOM	3157	CA			402	30.281		62.922	1.00 33.20
MOTA	3158	C			402	28.898		62.938	1.00 39.09
MOTA	3159	0			402	28.065		62.133	1.00 41.43
MOTA	3160	CB			402	30.391		64.078	1.00 33.82
ATOM	3161	CG1	ILE			31.490		63.811	1.00 34.70
ATOM	3162	CG2	ILE			29.080		64.287	1.00 23.32
ATOM.	3163		ILE	_		31.878		65.080	
ATOM	3164	N	PHE			28.668	21.246	63.868	1.00 32.73
ATOM	3165	CA	PHE			27.390		64.044	1.00 29.52
MOTA	3166	C	PHE			27.032		62.836	1.00 33.94
ATOM	3167	0	PHE			25.866		62.469	1.00 34.15
MOTA	3168	CB	PHE			27.319		65.381	1.00 29.03
ATOM	3169	CG	PHE			25.917		65.929	1.00 28.54
ATOM	3170		PHE			25.323		66.484	1.00 29.91
ATOM	3171		PHE			25.176		65.873	1.00 27.62
ATOM	3172		PHE			24.021		66.990	1.00 27.38
ATOM	3173		PHE			23.881		66.393	1.00 28.82
MOTA	3174	CZ	PHE			23.304		66.932	1.00 25.72
ATOM	3175	N	LEU			28.040		62.165	1.00 31.31
ATOM	3176	CA	LEU			27.687		60.983	1.00 32.95
MOTA	3177	C	LEU			27.068		59.952	1.00 32.89
MOTA	3178	0	LEU			26.050		59.315	1.00 37.36
ATOM	3179	CB	LEU			28.798		60.464	1.00 33.15
MOTA	3180	ÇG	LEU	A	404	29.029	26.208	61.444	1.00 36.96

MOTA	3181		LEU			30.454	26.717	61.353	1.00 37.13
ATOM	3182	CD2	LEU	Α	404	28.083	27.362	61.163	1.00 39.27
MOTA	3183	N	GLY	A	405	27.670	21.921	59.826	1.00 22.02
MOTA	3184	CA	GLY	Α	405	27.167	20.908	58.928	1.00 22.77
MOTA	3185	С	GLY	Α	405	25.698	20.676	59.206	1.00 31.85
ATOM	3186	0	GLY	Α	405	24.885	20.438	58.297	1.00 33.01
ATOM	3187	N			406	25.364	20.747	60.493	1.00 26.28
ATOM	3188	CA			406	23.992	20.565	60.863	1.00 25.27
ATOM	3189	c			406	23.188	21.757	60.365	1.00 34.80
ATOM	3190	ō			406	22.195	21.629	59.638	1.00 36.22
ATOM	3191	CB			406	23.798	20.268	62.351	1.00 24.52
ATOM	3192	CG			406	22.388	20.525	62.798	1.00 24.82
ATOM	3193		PHE			21.328	19.734	62.353	1.00 28.50
ATOM	3194		PHE			22.107	21.579	63.669	1.00 30.12
MOTA	3195		PHE			20.025	19.977	62.793	1.00 31.40
ATOM	3196	CE2	PHE			20.810	21.862	64.105	1.00 32.57
ATOM	3197	CZ	PHE			19.771	21.037	63.669	1.00 31.88
MOTA	3198	N	LEU			23.661	22.934	60.708	1.00 32.11
ATOM	3199	ÇA	LEU			22.972	24.132	60.269	1.00 33.11
MOTA	3200	C	LEU	Α	407	22.706	24.204	58.767	1.00 34.74
MOTA	3201	0	LEU	Α	407	21.635	24.615	58.341	1.00 35.21
ATOM	3202	CB	LEU	A	407	23,589	25.420	60.840	1.00 35.36
MOTA	3203	CG	LEU	A	407	22.597	26.577	60.855	1.00 41.79
MOTA	3204	CD1	LEU	Α	407	23.048	27.626	61.833	1.00 40.45
MOTA	3205	CD2	LEU	Α	407	22.513	27.197	59.461	1.00 49.57
ATOM	3206	N	LYS	Α	408	23.667	23.804	57.948	1.00 34.92
MOTA	3207	CA	LYS			23.476	23.826	56.490	1.00 36.29
ATOM	3208	С	LYS			22.378	22.876	56.037	1.00 38.15
MOTA	3209	0	LYS			21.568	23.191	55.160	1.00 35.09
MOTA	3210	CB	LYS			24.747	23.517	55.707	1.00 40.54
ATOM	3211	CG	LYS			24.633	23.873	54.214	1.00 43.41
MOTA	3212	CD	LYS			25.950	23.796	53.422	1.00 49.26
MOTA	3213	CE	LYS			26.808	25.059	53.459	1.00 61.45
MOTA	3214	NZ	LYS			28.014	24.994	52.606	1.00 73.78
ATOM	3215	N	ALA			22.352	21.690	56.655	1.00 35.34
ATOM	3216	CA	ALA			21.333	20.698	56.298	1.00 36.14
ATOM	3217	C	ALA			19.927	21.041	56.814	1.00 38.45
ATOM	3218	0	ALA			18.913	20.821	56.134	1.00 37.39
ATOM	3219	CB	ALA			21.762	19.273	56.626	1.00 36.66
ATOM	3210	N CB	TYR			19.902	21.597	58.030	1.00 33.14
		CA	TYR			18.693	22.059	58.682	1.00 29.65
ATOM	3221	CA				18.028			1.00 25.05
ATOM	3222		TYR TYR				23.051	57.730 57.399	1.00 33.35
ATOM	3223	0				16.855	22.976 22.762	59.970	1.00 37.20
ATOM	3224	CB	TYR			19.117			
MOTA	3225	CG	TYR			18.069	23.643	60.541	1.00 26.95
ATOM	3226		TYR			16.861	23.112	60.990	1.00 28.10
ATOM	3227	CD2				18.288	25.015	60.663	1.00 29.66
ATOM	3228		TYR			15.883	23.924	61.571	1.00 26.98
ATOM	3229		TYR			17.316	25.839	61.230	1.00 31.84
MOTA	3230	$\mathbf{cz}$	TYR			16.112	25.294	61.685	1.00 37.49
ATOM	3231	OH	TYR			15.156	26.110	62.241	1.00 33.48
MOTA	3232	N	VAL			18.848	23.961	57.262	1.00 28.75
ATOM	3233	CA	VAL			18.457	24.984	56.341	1.00 29.23
ATOM	3234	C	VAL	A	411	18.013	24.469	54.992	1.00 34.00
MOTA	3235	0	VAL			17.060	24.982	54.401	1.00 30.00
ATOM	3236	CB	JAV	A	411	19.617	25.922	56.139	1.00 32.22
ATOM	3237		VAL			19.331	26.821	54.950	1.00 29.86
ATOM	3238	CG2	VAL	A	411	19.850	26.708	57.431	1.00 31.69
ATOM	3239	N	GLU	A	412	18.730	23.479	54.488	1.00 33.14
MOTA	3240	CA	GLU	A	412	18.402	22.900	53.217	1.00 31.91
MOTA	3241	С	GLU	Α	412	17.068	22.163	53.355	1.00 30.32

ATOM	3242	0	GLU	Α	412	16.182	22.225	52.531	1.00 31.89
ATOM	3243	CB	GLU	Α	412	19.502	21.883	52.932	1.00 36.48
ATOM	3244	CG	GLU	Α	412	20.443	22.174	51.737	1.00 67.01
ATOM	3245	CD	GLU	Α	412	21.872	21.699	51.962	1.00100.00
ATOM	3246	OE1				22.193	20.782	52.716	1.00100.00
ATOM	3247	OE2	GLU			22.750	22.396	51.277	1.00 94.73
ATOM		N	LYS			16.922		54.444	
	3248						21.444		1.00 22.18
ATOM	3249	CA	LYS			15.729	20.692	54.714	1.00 17.91
MOTA	3250	C	LYS			14.463	21.486	54.855	1.00 23.75
ATOM	3251	0	LYS			13.417	20.978	54.503	1.00 25.92
ATOM	3252	CB	LYS	Α	413	15.890	19.911	55.988	1.00 15.65
MOTA	3253	CG	LYS	Α	413	14.554	19.422	56.503	1.00 38.69
MOTA	3254	$^{\rm CD}$	LYS			14.150	18.089	55.903	1.00 58.11
ATOM	3255	CE	LYS	Α	413	13.634	17.099	56.937	1.00 64.98
MOTA	3256	NZ	LYS	Α	413	13.457	15.751	56.381	1.00 73.89
ATOM	3257	N	PHE	Α	414	14.530	22.688	55.424	1.00 25.40
MOTA	3258	CA	PHR	Α	414	13.316	23.479	55.640	1.00 27.80
ATOM	3259	C	PHE			13.151	24.748	54.821	1.00 35.82
ATOM	3260	ō	PHE			12.276	25.557	55.122	1.00 35.17
MOTA	3261	CB	PHE			13.063	23.791	57.118	1.00 30.46
ATOM		CG	PHE			12.936		57.964	
	3262						22.553		1.00 33.88
ATOM	3263		PHE			11.746	21.826	57.996	1.00 35.94
ATOM	3264	CD2	PHE			14.005	22.110	58.742	1.00 37.75
ATOM	3265		PHE			11.629	20.664	58.761	1.00 37.77
MOTA	3266	CE2	PHE			13.888	20.962	59.526	1.00 42.23
ATOM	3267	cz	PHE			12.698	20.231	59.542	1.00 39.10
ATOM	3268	И	SER	Α	415	13.970	24.933	53.795	1.00 36.12
ATOM	3269	CA	SER	Α	415	13.858	26.115	52.945	1.00 36.36
ATOM	3270	C	SER	Α	415	12.412	26.295	52.510	1.00 38.99
ATOM	3271	0	SER	A	415	11.730	25.315	52.243	1.00 41.04
ATOM	3272	CB	SER	A	415	14.773	26.008	51.736	1.00 37.43
MOTA	3273	OG	SER	Α	415	16.036	26.566	52.046	1.00 46.73
ATOM	3274	N	TYR	А	416	11.928	27.537	52.475	1.00 33.40
MOTA	3275	CA	TYR	А	416	10.541	27.832	52.072	1.00 30.88
ATOM	3276	C	TYR			9.453	27.183	52.947	1.00 33.62
ATOM	3277	0	TYR			8.295	27.095	52.546	1.00 33.44
ATOM	3278	CB	TYR			10.292	27.479	50.584	1.00 28.42
ATOM	3279	CG	TYR			11.496	27.782	49.723	1.00 24.76
ATOM	3280	CD1				11.791	29.087	49.338	1.00 26.55
MOTA	3281	CD2	TYR			12.375	26.778	49.335	1.00 21.68
ATOM	3282	CE1	TYR			12.914	29.384	48.570	1.00 25.16
ATOM	3283	CE2	TYR			13.504	27.052	48.572	1.00 20.15
ATOM	3284	CZ	TYR			13.780	28.360	48.189	1.00 30.62
MOTA	3285	OH	TYR			14.892	28.616	47.399	1.00 35.15
									1.00 33.13
ATOM	3286	N	LYS			9.823	26.713	54.122	
ATOM	3287	CA	LYS			8.889	26.065	55.008	1.00 28.02
ATOM	3288	C	LYS			8.733	26.830	56.317	1.00 31.36
ATOM	3289	0	LYS			9.547	27.671	56.682	1.00 33.15
MOTA	3290	СВ	LYS			9.335	24.615	55.252	1.00 33.86
MOTA	3291	CG	LYS			8.449	23.792	56.201	1.00 86.28
ATOM	3292	CD	LYS			8.742	22.275	56.232	1.00100.00
ATOM	3293	CE	LYS			7.924	21.471	57.265	1.00 72.28
ATOM	3294	NZ	LYS	Α	417	8.280	20.033	57.323	1.00 41.88
MOTA	3295	N	SER	Α	418	7.668	26.557	57.033	1.00 28.88
ATOM	3296	CA	SER	A	418	7.455	27.195	58.335	1.00 30.04
MOTA	3297	C	SER	Α	418	7.425	26.064	59.332	1.00 34.09
ATOM	3298	0	SER			6.614	25.145	59.193	1.00 31.54
ATOM	3299	СВ	SER			6.261	28.126	58.410	1.00 31.46
ATOM	3300	OG	SER			6.417	29.106	57.399	1.00 35.01
MOTA	3301	И	ILE			8.356	26.077	60.281	1.00 28.50
ATOM	3302	CA	ILE			8.446	24.971	61.205	1.00 23.86
						2.224			3.11 22.10

MOTA	3303	С	ILE	A	419	8.272	25.342	62.641	1.00 25.06
ATOM	3304	0	ILB	Α	419	8.122	26.500	63.002	1.00 21.64
ATOM	3305	СВ	ILE			9.803	24.314	61.026	1.00 25.02
ATOM	3306	CG1				10.863	25.325	61.399	1.00 23.63
ATOM	3307	CG2	ILE			10.051	23.937	59.565	1.00 23.22
ATOM	3308	CD1				12.236	24.688	61.253	1.00 23.48
ATOM	3309	N	THR			8.321	24.302	63.455	1.00 24.71
			THR			8.201		64.895	
ATOM	3310	CA					24.417		1.00 24.36
MOTA	3311	C	THR			9.416	23.795	65.538	1.00 28.90
ATOM	3312	0	THR			10.190	23.112	64.863	1.00 23.38
ATOM	3313	CB	THR			6.979	23.691	65.448	1.00 24.92
MOTA	3314		THR			7.190	22.313	65.291	1.00 26.43
ATOM	3315	CG2	THR			5.728	24.082	64.694	1.00 31.57
MOTA	3316	N	THR			9.542	24.051	66.855	1.00 29.30
MOTA	3317	CA	THR			10.610	23.549	67.709	1.00 27.78
MOTA	3318	C	THR			10.831	22.035	67.585	1.00 30.99
ATOM	3319	0	THR	Α	421	11.975	21.594	67.489	1.00 33.28
MOTA	3320	CB	THR	Α	421	10.394	23.969	69.166	1.00 21.94
MOTA	3321	OG1				10.567	25.369	69.263	1.00 24.52
MOTA	3322	CG2	THR	Α	421	11.399	23.221	70.045	1.00 20.12
MOTA	3323	N	ASP	Α	422	9.721	21.272	67.575	1.00 21.94
ATOM	3324	CA	ASP	Α	422	9.706	19.823	67.430	1.00 21.08
MOTA	3325	C	ASP	A	422	10.323	19.401	66.104	1.00 31.16
MOTA	3326	0	ASP	A	422	11.110	18.427	66.027	1.00 31.95
MOTA	3327	CB	ASP	Α	422	8.276	19.278	67.561	1.00 19.49
ATOM	3328	CG	ASP	Α	422	8.236	17.802	67.298	1.00 31.85
ATOM	3329	OD1	ASP	А	422	9.130	17.040	67.654	1.00 29.73
MOTA	3330	OD2	ASP	Α	422	7.197	17.415	66.598	1.00 56.60
ATOM	3331	N	ASP	Α	423	9.957	20.146	65.049	1.00 26.75
ATOM	3332	CA	ASP	Α	423	10.505	19.876	63.729	1.00 26.01
ATOM	3333	С	ASP	Α	423	12.027	19.957	63.830	1.00 40.09
ATOM	3334	0	ASP	Α	423	12.753	19.020	63.500	1.00 47.09
MOTA	3335	CB	ASP			10.000	20.833	62.631	1.00 24.86
ATOM	3336	CG	ASP			8.538	20.722	62.343	1.00 39.90
ATOM	3337		ASP			7.968	19.649	62.299	1.00 45.03
ATOM	3338		ASP			7.943	21.887	62.113	1.00 40.43
MOTA	3339	N	TRP			12.493	21.099	64.320	1.00 31.92
MOTA	3340	CA	TRP			13.903	21.372	64.495	1.00 29.69
ATOM	3341	C	TRP			14.611	20.271	65.282	1.00 33.81
ATOM	3342	0	TRP			15.537	19.616	64.824	1.00 35.87
ATOM	3343	CB	TRP			14.056	22.711	65.239	1.00 26.11
ATOM	3344	CG	TRP			15.431	22.869	65.786	1.00 27.05
ATOM	3345		TRP			16.518	23.302	65.101	1.00 29.65
MOTA	3346	CD2	TRP			15.885	22.587	67.119	1.00 26.62
MOTA	3347		TRP			17.612	23.321	65.922	1.00 27.83
ATOM	3348		TRP			17.257	22.891	67.163	1.00 28.62
ATOM	3349	CE3				15.260	22.138	68.269	1.00 29.69
ATOM	3350	CZ2				18.010	22.758	68.319	1.00 29.28
ATOM	3351		TRP			16.000	21.993	69.429	1.00 33.50
MOTA	3352		TRP			17.362	22.317	69.459	1.00 33.93
ATOM	3353	N	LYS			14.156	20.090	66.497	1.00 28.75
MOTA	3354	CA	LYS			14.723	19.105	67.373	1.00 29.43
ATOM	3355	C	LYS			14.697	17.691	66.808	1.00 29.49
ATOM	3356	0	LYS			15.627	16.928	67.030	1.00 27.65
			LYS			14.078	19.171	68.744	1.00 29.70
ATOM	3357	CB	LYS			14.860	18.414	69.787	1.00 28.11
ATOM	3358	CG				14.860	18.414	71.132	1.00 23.11
ATOM	3359	CD	LYS			14.161	17.063	71.132	1.00 25.37
ATOM	3360	CE	LYS					71.768	1.00 58.08
ATOM	3361	NZ	LYS			13.042	16.302	66.107	1.00 19.05
ATOM	3362	N	ASP			13.606	17.361	65.516	1.00 19.03
ATOM	3363	CA	ASP	н	426	13.417	16.070	03.510	2.00 10.43

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MOTA	3364	C	ASP	Α	426	14.453	15.879	64.387	1.00 28.33
MOTA	3365	0	ASP	Α	426	15.070	14.832	64.232	1.00 31.25
ATOM	3366	CB	ASP	A	426	11.920	15.840	65.098	1.00 19.79
MOTA	3367	CG	ASP	Α	426	10.998	15.575	66.274	1.00 25.54
ATOM	3368		ASP			11.341	15.466	67.409	1.00 29.73
			ASP						1.00 20.67
ATOM	3369					9.804	15.611	65.938	
MOTA	3370	N			427	14.674	16.926	63.612	1.00 25.09
MOTA	3371	CA	PHE	Α	427	15.654	16.899	62.540	1.00 25.81
ATOM	3372	C	PHE	Α	427	17.066	16.718	63.159	1.00 34.01
MOTA	3373	0	PHE	Α	427	17.843	15.851	62.773	1.00 36.25
ATOM	3374	CB			427	15.589	18.197	61.704	1.00 26.35
ATOM	3375	CG			427	16.698			1.00 27.40
							18.202	60.702	
ATOM	3376		PHE			16.714	17.247	59.686	1.00 29.97
MOTA	3377		PHE			17.773	19.084	60.805	1.00 28.71
MOTA	3378	CE1	PHE	Α	427	17.730	17.194	58.733	1.00 27.72
ATOM	3379	CE2	PHE	Α	427	18.806	19.046	59.867	1.00 30.37
MOTA	3380	CZ	PHE	Α	427	18.780	18.104	58.837	1.00 26.34
ATOM	3381	N	LEU			17.369	17.544	64.160	1.00 28.94
ATOM	3382	CA	LEU			18.622	17.496	64.924	1.00 27.74
ATOM	3383	C	LEU			18.989	16.047	65.303	1.00 32.08
MOTA	3384	0	LEU	A	428	20.145	15.647	65.209	1.00 36.38
MOTA	3385	CB	LEU	Α	428	18.510	18.362	66.223	1.00 24.68
ATOM	3386	CG	LEU	Α	428	19.778	18.377	67.079	1.00 24.30
ATOM	3387	CD1	LEU	Α	428	20.855	19.278	66.467	1.00 23.00
ATOM	3388		LEU			19.446	18.856	68.481	1.00 16.41
ATOM	3389	N	TYR			17.991	15.271	65.735	1.00 23.71
								66.144	1.00 23.71
MOTA	3390	CA	TYR			18.148	13.896		
MOTA	3391	C	TYR			18.311	12.967	64.976	1.00 26.62
ATOM	3392	0	TYR			18.911	11.910	65.076	1.00 28.43
ATOM	3393	CB	TYR	Α	429	16.921	13.453	66.914	1.00 25.59
ATOM	3394	CG	TYR	A	429	17.069	13.526	68.414	1.00 29.53
ATOM	3395	CD1	TYR	Α	429	16.823	14.714	69.114	1.00 31.11
ATOM	3396	CD2	TYR	Α	429	17.361	12.383	69.156	1.00 32.70
ATOM	3397		TYR			16.916	14.769	70.510	1.00 32.23
ATOM	3398		TYR			17.485	12.420	70.551	1.00 35.30
								71.231	1.00 41.02
MOTA	3399	CZ	TYR			17.251	13.623		
MOTA	3400	ОН	TYR			17.339	13.679	72.609	1.00 30.02
MOTA	3401	И	SER	A	430	17.748	13.342	63.854	1.00 21.68
MOTA	3402	CA	SER	Α	430	17.914	12.469	62.730	1.00 23.42
ATOM	3403	C	SER	Α	430	19.264	12.722	62.050	1.00 32.87
ATOM	3404	0	SER	Α	430	19.879	11.819	61.467	1.00 35.11
MOTA	3405	CB	SER	Α	430	16.756	12.541	61.773	1.00 28.79
ATOM	3406	OG	SER			17.089	13.475	60.777	1.00 49.56
ATOM	3407	N	TYR			19.748	13.955	62.132	1.00 27.18
ATOM	3408	CA	TYR			21.017	14.296	61.537	1.00 27.14
ATOM	3409	C	TYR			22.152	13.702	62.316	1.00 32.52
MOTA	3410	0	TYR			23.155	13.242	61.771	1.00 33.64
ATOM	3411	CB	TYR	Α	431	21.216	15.818	61.385	1.00 31.07
MOTA	3412	CG	TYR	Α	431	22.566	16.265	60.812	1.00 35.63
MOTA	3413	CD1	TYR	A	431	23.663	16.492	61.650	1.00 36.88
MOTA	3414	CD2	TYR	Α	431	22.735	16.496	59.444	1.00 36.92
ATOM	3415		TYR			24.894		61.157	1.00 33.78
	3416		TYR			23.964	16.916	58.924	1.00 37.86
ATOM							17.143	59.786	1.00 37.00
ATOM	3417	CZ	TYR			25.038			
MOTA	3418	ОН	TYR			26.247	17.573	59.294	1.00 51.28
MOTA	3419	И	PHE			21.964	13.728	63.606	1.00 29.66
MOTA	3420	CA	PHE			22.939	13.215	64.526	1.00 29.12
MOTA	3421	C	PHE	Α	432	22.522	11.865	65.007	1.00 42.64
ATOM	3422	0	PHE	A	432	22.499	11.593	66.197	1.00 46.77
ATOM	3423	CB	PHE			23.063	14.157	65.719	1.00 30.24
ATOM	3424	CG	PHE			23.962	15.327	65.401	1.00 33.03
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MOTA	3425	נתי	PHE	A	422	25.336	15.113	65.277	1.00 37.22
MOTA	3426		PHE			23.470	16.624	65.232	1.00 30.70
MOTA	3427	CE1	PHE	Α	432	26.223	16.153	64.999	1.00 34.27
MOTA	3428	CE2	PHE	Α	432	24.349	17.667	64.938	1.00 31.71
ATOM	3429	CZ	PHE			25.722	17.438	64.823	1.00 27.82
MOTA	3430	N	LYS	A	433	22.174	11.029	64.063	1.00 42.50
ATOM	3431	CA	LYS	Α	433	21.669	9.670	64.270	1.00 40.87
ATOM	3432	C	LYS	A	433	22.718	8.751	64.908	1.00 46.17
ATOM	3433	0	LYS			22.405	7.734	65.513	1.00 48.48
MOTA	3434	CB	LYS			21.245	9.106	62.917	1.00 39.25
MOTA	3435	CG	LYS	Α	433	19.988	8.241	63.017	1.00 84.17
MOTA	3436	CD	LYS	Α	433	18.925	8.660	62.000	1.00100.00
ATOM	3437	CE	LYS	Δ	433	17.523	8.172	62.384	1.00100.00
		NZ			433	16.525	9.119	61.884	1.00100.00
ATOM	3438								
ATOM	3439	И	ASP			24.002	9.112	64.697	1.00 45.20
ATOM	3440	CA	ASP	Α	434	25.083	8.349	65.321	1.00 47.80
ATOM	3441	С	ASP	Α	434	25.201	8.684	66.802	1.00 50.78
ATOM	3442	Ō	ASP			25.474	7.845	67.653	1.00 55.76
MOTA	3443	CB	ASP			26.405	8.567	64.562	1.00 53.91
ATOM	3444	CG	ASP	Α	434	26.123	8.474	63.069	1.00 93.32
MOTA	3445	OD1	ASP	Α	434	25.744	7.573	62.325	1.00 96.22
ATOM	3446	OD2	ASP	Δ	434	26.119	9.664	62.753	1.00100.00
-		N	LYS			25.015	9.978	67.085	1.00 38.82
ATOM	3447								
ATOM	3448	CA	LYS			24.974	10.404	68.468	1.00 34.57
MOTA	3449	C	LYS	Α	435	23.549	10.749	68.881	1.00 39.87
ATOM	3450	0	LYS	Α	435	23.070	11.840	68.693	1.00 40.34
ATOM	3451	CB	LYS	Α	435	25.864	11.631	68.615	1.00 34.69
	3452	CG	LYS			27.064	11.595	67.679	1.00 40.86
ATOM									
MOTA	3453	CD	LYS			27.703	12.975	67.532	1.00 51.04
MOTA	3454	CE	LYS	A	435	29.242	12.904	67.557	1.00 24.08
ATOM	3455	NZ	LYS	Α	435	29.822	13.990	66.760	1.00 45.26
MOTA	3456	N	VAL			22.843	9.728	69.414	1.00 38.07
ATOM	3457	CA	VAL			21.601	10.036	70.111	1.00 36.86
MOTA	3458	C	VAL			21.846	10.129	71.608	1.00 44.88
MOTA	3459	0	VAL	Α	436	21.289	10.948	72.300	1.00 46.42
MOTA	3460	CB	VAL	Α	436	20.567	8.923	69.816	1.00 37.37
ATOM	3461	CG1	VAL	Α	436	19.944	9.143	68.446	1.00 36.24
MOTA	3462	CG2	VAL	Α	436	21.227	7.556	69.854	1.00 36.80
	3463	N	ASP			22.718	9.232	72.099	1.00 43.61
ATOM									
MOTA	3464	CA	ASP			23.044	9.222	73.522	1.00 41.43
MOTA	3465	С	ASP	A	437	23.657	10.546	73.958	1.00 45.71
MOTA	3466	0	ASP	Α	437	23.554	10.956	75.107	1.00 49.89
ATOM	3467	CB	ASP	Α	437	24.022	8.082	73.776	1.00 43.84
ATOM	3468	CG	ASP	Δ	437	23.281	6.752	73.691	1.00 72.47
	-		ASP						1.00 74.64
MOTA	3469					22.062	6.769		
MOTA	3470	OD2	ASP			23.933	5.730	73.481	1.00 86.09
MOTA	3471	N	VAL	Α	438	24.333	11.324	73.122	1.00 40.21
ATOM	3472	CA	VAL	Α	438	24.807	12.624	73.577	1.00 40.97
ATOM	3473	С	VAL	Δ	438	23.621	13.582	73.668	1.00 41.86
		ō	VAL		_	23.368	14.276	74.657	1.00 39.95
MOTA	3474								
MOTA	3475	CB	VAL			25.875	13.165	72.615	1.00 47.47
MOTA	3476	CG1	VAL	Α	438	26.438	14.523	73.051	1.00 47.51
MOTA	3477	CG2	VAL	Α	438	26.996	12.149	72.440	1.00 47.51
MOTA	3478	N	LEU			22.876	13.595	72.585	1.00 37.91
ATOM	3479	CA	LEU			21.729	14.442	72.507	1.00 36.21
MOTA	3480	С	LEU			20.850	14.190	73.695	1.00 40.03
MOTA	3481	0	LEU	A	439	20.214	15.064	74.255	1.00 42.22
MOTA	3482	CB	LEU	Α	439	20.949	14.180	71.210	1.00 33.84
MOTA	3483	CG	LEU	A	439	21.552	14.939	70.039	1.00 32.80
ATOM	3484		LEU			20.813	14.538	68.775	1.00 34.08
			LEU			21.435	16.434	70.258	1.00 23.80
MOTA	3485	CDZ	טפע	H	*37	41.433	T0.434	10.430	1.00 23.00

ATOM	3486	N	ASN A		20.810	12.953	74.076	1.00 34.03
MOTA	3487	CA	ASN A	440	19.971	12.603	75.187	1.00 34.00
MOTA	3488	C	ASN A	440	20.494	13.093	76.532	1.00 40.95
MOTA	3489	0	ASN A	440	19.816	12.995	77.544	1.00 42.09
MOTA	3490	CB	ASN A	440	19.681	11.095	75.178	1.00 24.89
ATOM	3491	CG	ASN A	440	18.790	10.635	74.028	1.00 46.52
ATOM	3492	OD1	ASN A	440	19.005	9.537	73.480	1.00 58.82
ATOM	3493	ND2			17.769	11.440	73.680	1.00 31.11
ATOM	3494	N	GLN A		21.707	13.623	76.531	1.00 36.98
ATOM	3495	CA	GLN A		22.339	14.095	77.744	1.00 35.47
ATOM	3496	C	GLN A		21.879	15.478	78.067	1.00 35.47
ATOM	3497	ō	GLN A		22.137	16.029	79.142	1.00 34.96
ATOM	3498	CB	GLN A		23.878	14.109	77.581	
ATOM	3499	CG	GLN A		24.504	12.692	77.422	1.00 38.10
MOTA	3500	CD	GLN A					1.00 52.06
					25.954	12.730	76.955	1.00 81.69
ATOM	3501		GLN A		26.476	13.796	76.609	1.00 74.46
ATOM	3502	NE2	GLN A		26.616	11.574	76.972	1.00 91.09
ATOM	3503	N	VAL A		21.197	16.067	77.112	1.00 31.86
MOTA	3504	CA	VAL A		20.753	17.411	77.384	1.00 32.78
ATOM	3505	C	VAL A		19.354	17.468	77.970	1.00 38.24
ATOM	3506	0	VAL A		18.468	16.700	77.588	1.00 42.83
MOTA	3507	CB	VAL A		20.845	18.277	76.159	1.00 34.84
ATOM	3508	CG1			21.430	17.435	75.020	1.00 34.65
ATOM	3509	CG2	VAL A		19.441	18.705	75.811	1.00 33.21
ATOM	3510	N	ASP A		19.172	18.388	78.908	1.00 25.60
ATOM	3511	CA	ASP A		17.931	18.634	79.616	1.00 24.57
ATOM	3512	С	ASP A		16.996	19.533	78.791	1.00 32.14
ATOM	3513	0	ASP A	443	16.744	20.732	79.073	1.00 34.77
MOTA	3514	CB	ASP A		18.332	19.272	80.957	1.00 27.11
ATOM	3515	CG	ASP A	443	17.216	19.413	81.901	1.00 39.99
MOTA	3516	OD1	ASP A	443	16.063	19.234	81.573	1.00 44.78
MOTA	3517	OD2	ASP A	443	17.631	19.753	83.094	1.00 56.66
ATOM	3518	N	TRP A	444	16.525	18.914	77.722	1.00 28.30
ATOM	3519	CA	TRP A	444	15.614	19.507	76.757	1.00 26.27
ATOM	3520	С	TRP A	444	14.460	20.296	77.416	1.00 31.52
MOTA	3521	0	TRP A	444	14.102	21.409	76.988	1.00 34.63
MOTA	3522	CB	TRP A	444	15.067	18.398	75.799	1.00 21.47
MOTA	3523	CG	TRP A	444	16.095	17.951	74.806	1.00 22.03
MOTA	3524	CD1	TRP A	444	16.675	16.718	74.736	1.00 25.16
MOTA	3525	CD2	TRP A	444	16.733	18.738	73.776	1.00 20.36
MOTA	3526	NE1	TRP A	444	17.623	16.677	73.738	1.00 23.97
ATOM	3527	CE2	TRP A	444	17.688	17.906	73.138	1.00 24.71
ATOM	3528	CE3	TRP A	444	16.596	20.045	73.342	1.00 20.86
ATOM	3529	CZ2	TRP A	444	18.448	18.345	72.060	1.00 24.51
ATOM	3530	CZ3	TRP A	444	17.353	20.471	72.264	1.00 22.88
MOTA	3531	CH2	TRP A	444	18.281	19.643	71.643	1.00 23.48
ATOM	3532	N	ASN A	445	13.855	19.711	78.457	1.00 24.92
ATOM	3533	CA	ASN A		12.723	20.326	79.113	1.00 26.30
ATOM	3534	C	ASN A		13.040	21.677	79.729	1.00 30.17
ATOM	3535	0	ASN A	445	12.291	22.660	79.547	1.00 31.86
ATOM	3536	CB	ASN A		11.987	19.382	80.094	1.00 40.83
ATOM	3537	CG	ASN A		10.946	20.033	81.020	1.00 87.07
MOTA	3538		ASN A		11.271	20.635	82.065	1.00 86.38
ATOM	3539		ASN A		9.670	19.848	80.688	1.00 71.65
ATOM	3540	N	ALA A		14.147	21.687	80.436	1.00 22.70
ATOM	3541	CA	ALA A		14.583	22.886	81.073	1.00 24.45
ATOM	3542	C	ALA A		14.886	23.896	79.990	1.00 24.43
ATOM	3543	o	ALA A		14.324	25.001	79.936	1.00 33.92
ATOM	3544	СВ	ALA A		15.814	22.543	81.900	1.00 33.92
MOTA	3545	N	TRP A		15.776	23.494	79.102	1.00 25.24
ATOM	3546	CA	TRP A		16.162	24.384	78.034	
-11 OF	3340	CM	TVL H	37 /·	10.102	22.304	70.034	1.00 26.83

MOTA	3547	C	TRP A	447	14.989	24.912	77.223	1.00 31.32
MOTA	3548	0	TRP A	447	14.971	26.089	76.875	1.00 30.48
MOTA	3549	CB	TRP A	447	17.166	23.725	77.062	1.00 25.78
MOTA	3550	CG	TRP A	447	18.625	23.815	77.421	1.00 26.60
ATOM	3551	CD1	TRP A	447	19.343	22.840	78.046	1.00 28.89
MOTA	3552	CD2	TRP A	447	19.554	24.896	77.165	1.00 26.16
MOTA	3553	NE1	TRP A	447	20.654	23.217	78.197	1.00 27.23
MOTA	3554	CE2	TRP A	447	20.822	24.476	77.660	1.00 29.00
ATOM	3555	CE3	TRP A	447	19.435	26.162	76.607	1.00 27.56
ATOM	3556	CZ2	TRP A	447	21.954	25.290	77.583	1.00 27.95
ATOM	3557	CZ3	TRP A	447	20.554	26.966	76.538	1.00 29.93
MOTA	3558	CH2	TRP A	447	21.792	26.539	77.035	1.00 30.16
MOTA	3559	N	LEU A	448	14.029	24.034	76.893	1.00 26.54
MOTA	3560	CA	LEU A	448	12.896	24.421	76.052	1.00 26.92
ATOM	3561	С	LEU A	448	11.734	25.064	76.779	1.00 36.15
ATOM	3562	0	LEU A	448	11.089	26.031	76.304	1.00 31.19
MOTA	3563	CB	LEU A	448	12.338	23.197	75.307	1.00 25.26
ATOM	3564	CG	LEU A	. 448	13.311	22.545	74.332	1.00 28.29
ATOM	3565	CD1	LEU A	448	12.597	21.455	73.530	1.00 30.49
MOTA	3566	CD2	LEU A	448	13.879	23.576	73.375	1.00 21.94
ATOM	3567	N	TYR A	449	11.472	24.455	77.924	1.00 33.14
MOTA	3568	CA	TYR A	. 449	10.373	24.835	78.747	1.00 30.64
MOTA	3569	C	TYR A	449	10.646	25.525	80.041	1.00 34.31
MOTA	3570	0	TYR A	449	9.750	26.191	80.529	1.00 41.98
MOTA	3571	CB	TYR A	449	9.400	23.674	78.916	1.00 29.14
MOTA	3572	CG	TYR A	449	9.212	23.089	77.556	1.00 26.50
ATOM	3573	CD1	TYR A		8.762	23.869	76.485	1.00 24.36
ATOM	3574	CD2	TYR A	449	9.560	21.762	77.325	1.00 28.48

ATOM	3575	CR1	TYR	Δ	449	8.626	23.331	75.202	1.00 17.56
ATOM	3576		TYR			9.427	21.205	76.054	1.00 29.93
ATOM	3577	CZ			449	8.959	21.988	74.998	1.00 23.33
ATOM	3578	OH			449	8.840	21.415	73.762	1.00 39.47
ATOM	3579	N			450	11.806	25.413	80.644	1.00 22.72
ATOM	3580	CA			450	11.902	26.149	81.900	1.00 21.21
MOTA	3581	C	SER	Α	450	12.278	27.625	81.749	1.00 23.98
MOTA	3582	0	SER	Α	450	12.966	28.035	80.810	1.00 27.17
MOTA	3583	CB	SER	A	450	12.666	25.436	83.010	1.00 24.83
MOTA	3584	OG	SER	Α	450	12.540	24.046	82.871	1.00 36.29
MOTA	3585	N	PRO	А	451	11.806	28.430	82.689	1.00 19.76
ATOM	3586	CA	PRO	Α	451	12.111	29.840	82.669	1.00 18.20
MOTA	3587	C	PRO	Α	451	13.461	29.988	83.271	1.00 21.72
ATOM	3588	0	PRO	Α	451	14.022	29.015	83.742	1.00 24.34
MOTA	3589	CB	PRO	А	451	11.185	30.485	83.695	1.00 18.85
ATOM	3590	CG			451	10.836	29.390	84.677	1.00 23.13
ATOM	3591	CD			451	11.002	28.078	83.900	1.00 19.61
ATOM	3592	N			452	13.959	31.212	83.307	1.00 18.97
ATOM	3593	CA			452	15.241	31.444	83.922	1.00 19.09
		C							
ATOM	3594		GLY			16.382	31.107	83.016	1.00 26.20
ATOM	3595	0	GLY			16.191	30.916	81.819	1.00 27.37
ATOM	3596	N	LEU			17.557	31.057	83.650	1.00 25.48
ATOM	3597	CA	LEU			18.843	30.750	83.029	1.00 25.32
ATOM	3598	C	LEU			18.906	29.322	82.629	1.00 26.21
ATOM	3599	0	LEU	A	453	18.400	28.458	83.322	1.00 25.04
ATOM	3600	CB	LEU			20.042	31.119	83.938	1.00 25.46
MOTA	3601	CG	LEU	A	453	20.280	32.632	83.904	1.00 31.82
ATOM	3602	CD1	LEU	A	453	21.019	33.087	85.119	1.00 31.78
ATOM	3603	CD2	LEU	A	453	21.046	33.056	82.651	1.00 41.50
ATOM	3604	N	PRO	A	454	19.510	29.082	81.489	1.00 22.97
MOTA	3605	CA	PRO	A	454	19.585	27.747	81.003	1.00 21.60
ATOM	3606	C	PRO	A	454	20.145	26.890	82.075	1.00 26.94
MOTA	3607	0	PRO	A	454	20.923	27.359	82.893	1.00 29.09
ATOM	3608	CB	PRO	Α	454	20.489	27.780	79.768	1.00 22.34
ATOM	3609	CG	PRO	A	454	20.777	29.232	79.470	1.00 23.69
ATOM	3610	CD	PRO	A	454	20.136	30.054	80.556	1.00 20.82
MOTA	3611	N	PRO	A	455	19.721	25.648	82.067	1.00 25.61
ATOM	3612	CA	PRO	A	455	20.167	24.683	83.031	1.00 24.27
ATOM	3613	C	PRO	A	455	21.661	24.568	82.991	1.00 30.95
MOTA	3614	0	PRO	A	455	22.225	24.062	83.920	1.00 33.47
ATOM	3615	СВ	PRO			19.631	23.320	82.592	1.00 25.04
ATOM	3616	CG	PRO			19.149	23.497	81.162	1.00 33.02
ATOM	3617	CD	PRO			19.111	25.005	80.888	1.00 28.49
ATOM	3618	N	ILE			22.305	25.002	81.911	1.00 27.91
ATOM	3619	CA	ILE			23.764	24.893	81.821	1.00 27.82
ATOM	3620	C	ILE			24.395	26.057	81.077	1.00 27.02
ATOM	3621	0	ILE			23.737	26.769	80.293	1.00 34.73
ATOM	3622	СВ	ILE			24.228	23.540	81.259	1.00 37.01
	3623		ILE						1.00 31.34
ATOM							23.305	81.417	
ATOM	3624		ILE			23.865	23.369	79.788	1.00 32.96
MOTA	3625		ILE			26.054	21.852	81.116	1.00 23.94
MOTA	3626	N	LYS			25.680	26.252	81.334	1.00 30.52
ATOM	3627	CA	LYS			26.405	27.335	80.707	1.00 30.21
ATOM	3628	C	LYS			27.515	26.808	79.835	1.00 32.14
ATOM	3629	0	LYS				26.037	80.273	1.00 33.07
MOTA	3630	CB	LYS			26.953	28.264	81.749	1.00 32.38
ATOM	3631	CG	LYS			27.818	29.327	81.121	1.00 34.64
MOTA	3632	CD	LYS	Α	457	28.288	30.306	82.166	1.00 13.41

ATOM	3633	CE	LYS			28.803	31.596	81.565	1.00 18.04
ATOM	3634	NZ	LYS			28.974	32.643	82.595	1.00 26.77
ATOM	3635	N	PRO			27.567	27.208	78.589	1.00 27.50
MOTA	3636	CA			458	28.630	26.675	77.737	1.00 26.85
ATOM	3637	С	PRO			29.994	27.147	78.185	1.00 26.89
MOTA	3638	0	PRO	A	458	30.128	27.876	79.167	1.00 24.86
MOTA	3639	CB	PRO	A	458	28.335	27.191	76.316	1.00 29.41
ATOM	3640	CG	PRO	A	458	26.952	27.864	76.375	1.00 33.24
ATOM	3641	CD	PRO	A	458	26.574	28.044	77.848	1.00 26.12
MOTA	3642	N	ASN	Α	459	31.005	26.754	77.440	1.00 22.13
MOTA	3643	CA	asn	Α	459	32.359	27.191	77.735	1.00 22.29
MOTA	3644	C	asn	Α	459	32.751	28.325	76.820	1.00 30.27
MOTA	3645	0	asn	Α	459	32.451	28.296	75.617	1.00 32.89
MOTA	3646	CB	asn	Α	459	33.315	26.060	77.494	1.00 25.03
ATOM	3647	CG	asn	Α	459	32.766	24.846	78.155	1.00 49.54
ATOM	3648	OD1	ASN	Α	459	32.618	24.822	79.383	1.00 50.09
MOTA	3649	ND2	ASN	A	459	32.411	23.870	77.332	1.00 38.39
MOTA	3650	N	TYR	Α	460	33.448	29.316	77.380	1.00 25.58
MOTA	3651	CA	TYR	Α	460	33.851	30.493	76.625	1.00 23.89
MOTA	3652	С	TYR	Α	460	35.298	30.853	76.745	1.00 34.20
ATOM	3653	0	TYR	A	460	35.849	30.862	77.839	1.00 35.27
ATOM	3654	CB	TYR	Α	460	33.120	31.708	77.171	1.00 24.38
ATOM	3655	CG	TYR	А	460	31.636	31.631	77.024	1.00 26.98
ATOM	3656	CD1	TYR	A	460	31.029	32.011	75.829	1.00 30.69
MOTA	3657	CD2	TYR	A	460	30.838	31.168	78.064	1.00 25.70
ATOM	3658	CE1	TYR	A	460	29.644	31.952	75.684	1.00 28.77
ATOM	3659	CE2	TYR	A	460	29.453	31.096	77.938	1.00 25.24
ATOM	3660	CZ	TYR	Α	460	28.863	31.496	76.741	1.00 24.49
ATOM	3661	OH	TYR	A	460	27.519	31.443	76.587	1.00 28.39
MOTA	3662	N	ASP	Α	461	35.893	31.227	75.616	1.00 30.58
ATOM	3663	CA	ASP	Α	461	37.268	31.640	75.654	1.00 27.51
MOTA	3664	C	ASP	A	461	37.319	32.941	76.464	1.00 23.53
ATOM	3665	0	ASP	A	461	36.377	33.704	76.396	1.00 26.62
ATOM	3666	CB	ASP	A	461	37.821	31.784	74.218	1.00 27.30
ATOM	3667	CG	ASP	A	461	39.137	32.466	74.260	1.00 32.53
MOTA	3668	OD1	ASP	A	461	39.262	33.672	74.334	1.00 39.66
MOTA	3669	OD2	ASP	Α	461	40.130	31.628	74.306	1.00 44.34
MOTA	3670	N	MET	A	462	38.375	33.234	77.224	1.00 17.26
MOTA	3671	CA	MET	Α	462	38.396	34.511	78.008	1.00 18.66
ATOM	3672	Ç	MET	A	462	39.299	35.634	77.485	1.00 24.02
ATOM	3673	0	MET	A	462	39.336	36.738	78.011	1.00 24.56
MOTA	3674	CB	MET	Α	462	38.818	34.186	79.431	1.00 22.99
MOTA	3675	CG	MET	A	462	37.808	33.209	80.025	1.00 28.98
MOTA	3676	SD	MET			36.166	33.969	79.951	1.00 33.22
MOTA	3677	CE	MET	A	462	36.420	35.300	81.153	1.00 27.89
MOTA	3678	N	THR			40.067	35.348	76.461	1.00 22.57
ATOM	3679	CA	THR	A	463	41.015	36.285	75.911	1.00 22.64
MOTA	3680	C	THR			40.690	37.738	75.961	1.00 33.12
MOTA	3681	0	THR			41.372	38.493	76.640	1.00 35.27
MOTA	3682	CB	THR			41.574	35.929	74.536	1.00 29.80
ATOM	3683		THR			41.939	34.576	74.509	1.00 26.74
MOTA	3684		THR			42.797	36.793	74.224	1.00 18.79
ATOM	3685	N	LEU			39.700	38.141	75.177	1.00 30.50
ATOM	3686	CA	LEU			39.293	39.533	75.061	1.00 29.15
MOTA	3687	C	LEU			38.490	40.067	76.216	1.00 34.24
MOTA	3688	0	LEU			38.439	41.270	76.422	1.00 37.12
ATOM	3689	CB	LEU			38.537	39.767	73.743	1.00 29.20
ATOM	3690	CG	LEU	Α	464	39.393	39.394	72.527	1.00 33.73

3.000	2621	an 1			464	20 600	20 555	71 017	1 00 00 00
ATOM	3691		LEU			38.609	39.565	71.217	1.00 32.72
MOTA	3692		LEU			40.648	40.261	72.499	1.00 26.22
MOTA	3693	N	THR	A	465	37.855	39.167	76.964	1.00 30.71
MOTA	3694	CA	THR	Α	465	37.005	39.496	78.103	1.00 28.58
MOTA	3695	C	THR	Α	465	37.800	39.893	79.324	1.00 30.69
MOTA	3696	0	THR	Α	465	37.530	40.865	80.030	1.00 31.27
ATOM	3697	CB			465	36.016	38.328	78.372	1.00 35.85
ATOM	3698	OG1				35.101	38.212	77.296	1.00 50.93
			THR			35.255	38.451	79.690	1.00 26.34
ATOM	3699	CG2							
ATOM	3700	N	ASN			38.802	39.111	79.568	1.00 24.40
MOTA	3701	CA			466	39.635	39.375	80.688	1.00 23.11
ATOM	3702	C	ASN			39.899	40.856	80.967	1.00 28.37
ATOM	3703	0	asn	A	466	39.763	41.270	82.120	1.00 27.03
ATOM	3704	CB	asn	A	466	40.921	38.543	80.629	1.00 20.30
MOTA	3705	CG	ASN	Α	466	40.709	37.145	81.155	1.00 32.26
MOTA	3706	OD1	ASN	A	466	41.384	36.191	80.723	1.00 29.29
ATOM	3707	ND2	ASN	Α	466	39.775	37.015	82.111	1.00 28.19
ATOM	3708	N	ALA	Α	467	40.306	41.666	79.967	1.00 27.97
ATOM	3709	CA	ALA			40.587	43.079	80.295	1.00 26.66
MOTA	3710	C	ALA			39.352	43.827	80.720	1.00 31.78
		_						81.393	
ATOM	3711	0	ALA			39.406	44.845		1.00 31.71
ATOM	3712	CB	ALA			41.365	43.837	79.256	1.00 25.99
ATOM	3713	N			468	38.217	43.277	80.336	1.00 28.06
ATOM	3714	CA			468	36.942	43.862	80.693	1.00 25.80
ATOM	3715	C	CYS	Α	468	36.668	43.619	82.165	1.00 26.47
ATOM	3716	0	CYS	A	468	36.469	44.517	82.963	1.00 27.99
ATOM	3717	CB	CYS	Α	468	35.882	43.376	79.696	1.00 24.56
MOTA	3718	SG	CYS	A	468	36.455	43.873	78.049	1.00 27.76
ATOM	3719	N	ILE	Α	469	36.752	42.384	82.540	1.00 24.34
MOTA	3720	CA	ILE	A	469	36.599	42.052	83.921	1.00 25.23
ATOM	3721	С	ILE	Α	469	37.560	42.800	84.876	1.00 28.13
MOTA	3722	0	ILE	Α	469	37.175	43.220	85.950	1.00 29.54
MOTA	3723	CB			469	36.858	40.574	84.068	1.00 27.23
ATOM	3724	CG1				35.956	39.801	83.112	1.00 26.94
ATOM	3725	CG2				36.537	40.208	85.496	1.00 25.56
ATOM	3726		ILE			36.247	38.298	83.085	1.00 45.50
								84.534	1.00 23.28
ATOM	3727	N	ALA			38.830	42.960		
ATOM	3728	CA	ALA			39.749	43.621	85.461	1.00 22.23
MOTA	3729	C	ALA			39.392	45.038	85.808	1.00 30.29
MOTA	3730	0	ALA			39.474	45.451	86.986	1.00 32.82
MOTA	3731	CB	ALA			41.218	43.502	85.074	1.00 21.98
MOTA	3732	N	LEU	A	471	39.007	45.760	84.759	1.00 23.53
MOTA	3733	CA	LEU	Α	471	38.643	47.173	84.834	1.00 18.39
MOTA	3734	С	<b>LEU</b>	A	471	37.333	47.373	85.569	1.00 26.57
ATOM	3735	0	LEU	Α	471	37.210	48.208	86.462	1.00 30.48
MOTA	3736	CB	LEU	A	471	38.676	47.827	83.444	1.00 15.51
MOTA	3737	CG	LEU	A	471	38.671	49.325	83.539	1.00 24.20
ATOM	3738	CD1	LEU	A	471	39.754	49.795	84.513	1.00 24.86
ATOM	3739		LEU			38.876	49.941	82.156	1.00 26.35
MOTA	3740	N	SER			36.351	46.570	85.222	1.00 25.31
ATOM	3741	CA	SER			35.080	46.674	85.901	1.00 27.56
		C	SER			35.260		87.396	1.00 27.30
ATOM	3742						46.477		
ATOM	3743	O CE	SER			34.800	47.292	88.214	1.00 32.85
ATOM	3744	CB	SER			33.989	45.714	85.393	1.00 32.06
MOTA	3745	OG	SER			34.492	44.774	84.470	1.00 48.56
ATOM	3746	N	GLN			35.911	45.350	87.736	1.00 27.52
ATOM	3747	CA	GLN			36.170	44.971	89.108	1.00 24.10
MOTA	3748	C	GLN	Α	473	36.866	46.096	89.836	1.00 25.18

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MOTA	3749	0	GLN			36.534	46.458	90.969		21.62
MOTA	3750	CB			473	36.994	43.671	89.148		25.86
MOTA	3751	CG			473	36.128	42.402	89.118		32.72
MOTA	3752	CD	GLN	A	473	34.970	42.504	90.090	1.00	46.08
MOTA	3753	OE1	GLN	Α	473	35.165	42.422	91.308	1.00	40.73
MOTA	3754	NE2	GLN	Α	473	33.761	42.692	89.559	1.00	28.28
ATOM	3755	N	ARG	Α	474	37.855	46.656	89.161	1.00	24.00
MOTA	3756	CA	ARG	Α	474	38.562	47.765	89.779	1.00	24.46
MOTA	3757	C			474	37.609	48.893	90.141		29.31
MOTA	3758	ō			474	37.620	49.447	91.242		33.13
MOTA	3759	CB			474	39.682	48.290	88.898		20.19
	3760	CG			474	40.866	47.352	88.831		28.48
MOTA										34.41
ATOM	3761	CD	ARG			41.871	47.869	87.832		
ATOM	3762	NE	ARG			42.258	49.245	88.093		40.09
ATOM	3763	CZ			474	42.927	49.938	87.185		51.25
ATOM	3764	NH1	ARG	A	474	43.220	49.376	86.019	1.00	24.79
ATOM	3765	NH2	ARG	A	474	43.316	51.199	87.444	1.00	20.43
ATOM	3766	N	TRP	Α	475	36.791	49.259	89.178	1.00	25.32
MOTA	3767	CA	TRP	Α	475	35.862	50.332	89.400	1.00	26.77
MOTA	3768	C	TRP	Α	475	34.881	49.962	90.474	1.00	27.52
ATOM	3769	0	TRP	A	475	34.749	50.633	91.475	1.00	29.64
ATOM	3770	CB	TRP	Α	475	35.199	50.804	88.093	1.00	27.95
ATOM	3771	CG	TRP	Α	475	36.047	51.819	87.361	1.00	32.11
ATOM	3772		TRP			36.873	51.592	86.298		35.65
ATOM	3773	CD2	TRP			36.161	53.217	87.648		31.62
ATOM	3774	NE1	TRP			37.484	52.748	85.904		34.92
		CE2	TRP			37.054	53.763	86.707		36.16
ATOM	3775	CE3					54.040	88.606		32.63
ATOM	3776		TRP			35.588		86.719		36.24
ATOM	3777	CZ2			475	37.372	55.112			
ATOM	3778	CZ3	TRP			35.897	55.375	88.616		34.74
ATOM	3779	CH2	TRP			36.777	55.901	87.685		35.77
MOTA	3780	N			476	34.234	48.847	90.279		26.36
MOTA	3781	CA			476	33.268	48.386	91.235		28.33
MOTA	3782	C	ILE			33.771	48.315	92.681		34.20
MOTA	3783	0	ILE			33.056	48.595	93.637		36.89
MOTA	3784	CB	ILE	A	476	32.722	47.070	90.761		32.23
MOTA	3785	CG1	ILE			31.993	47.308	89.443	1.00	30.49
MOTA	3786	CG2	ILE	A	476	31.864	46.376	91.851	1.00	34.86
MOTA	3787	CD1	IFE	Α	476	31.595	46.005	88.756	1.00	33.04
MOTA	3788	N	THR	A	477	35.010	47.934	92.860	1.00	27.27
MOTA	3789	CA	THR	A	477	35.558	47.846	94.194	1.00	24.15
ATOM	3790	C	THR	A	477	36.416	49.052	94.523	1.00	27.30
ATOM	3791	0	THR	A	477	37.120	49.065	95.519	1.00	27.36
ATOM	3792	CB	THR	A	477	36.402	46.578	94.257		32.13
ATOM	3793	OG1				37.593	46.848	93.557	1.00	29.48
ATOM	3794		THR			35.634	45.470	93.530	1.00	16.94
ATOM	3795	N	ALA			36.371	50.097	93.695		22.33
ATOM	3796	CA	ALA			37.164	51.260	93.988		20.44
MOTA	3797	c c	ALA			36.890	51.843	95.390		32.94
		0	ALA			35.786	51.756	95.922		34.38
ATOM	3798							92.942		19.26
ATOM	3799	CB	ALA			36.938	52.343			
ATOM	3800	N	LYS			37.931	52.469	95.970		29.65
MOTA	3801	CA	LYS			37.899	53.168	97.243		27.30
MOTA	3802	C	LYS			38.575	54.512	97.051		36.54
MOTA	3803	0	LYS			39.378	54.692	96.118		34.13
ATOM	3804	CB	LYS			38.457	52.410	98.417		28.01
ATOM	3805	CG	LYS			37.696	51.116	98.631		51.38
ATOM	3806	CD	LYS	Α	479	37.115	50.880	100.021	1.00	67.24

MOTA	3807	CE	LYS	A	479	35.804	50.103	99.931	1.00 87.12
ATOM	3808	NZ	LYS	Α	479	35.711	48.948	100.841	1.00 85.55
MOTA	3809	N			480	38.241	55.477	97.900	1.00 36.30
ATOM	3810	CA			480	38.843	56.793	97.751	1.00 34.79
MOTA	3811	C			480	40.261	56.707	97.220	1.00 34.79
ATOM	3812	ō			480	40.613	57.332	96.234	1.00 34.10
ATOM	3813	CB			480	38.899	57.565	99.078	1.00 36.21
ATOM	3814	CG			480	37.709	58.500	99.303	1.00 63.85
ATOM	3815	CD			480	37.601	59.511	98.214	1.00100.00
ATOM	3816		GLU			38.457	59.648	97.357	1.00100.00
ATOM	3817	OE2	GLU				60.209	98.288	
MOTA	3818	N	ASP			36.491 41.080	55.946	97.904	1.00100.00
ATOM		CA			481		55.860	97.519	1.00 24.69
ATOM	3819	C	ASP			42.451			1.00 23.87
	3820					42.771	55.314	96.132	1.00 34.51
ATOM	3821	0	ASP			43.925	55.312	95.721	1.00 39.44
ATOM	3822	CB			481	43.262	55.155	98.611	1.00 25.29
MOTA	3823	CG	ASP			43.072	53.668	98.575	1.00 39.58
ATOM	3824		ASP			42.471	53.029	97.708	1.00 46.00
ATOM	3825		ASP			43.698	53.107	99.567	1.00 39.59
ATOM	3826	N	ASP			41.788	54.881	95.373	1.00 30.70
MOTA	3827	CA	ASP			42.098	54.379	94.024	1.00 31.73
ATOM	3828	C	ASP			41.725	55.307	92.859	1.00 34.17
MOTA	3829	0	ASP			42.158	55.150	91.717	1.00 35.45
MOTA	3830	CB	ASP			41.399	53.022	93.756	1.00 33.31
ATOM	3831	CG	ASP			41.686	51.970	94.779	1.00 38.90
ATOM	3832		ASP			42.810	51.514	94.992	1.00 42.45
MOTA	3833		ASP			40.606	51.625	95.440	1.00 40.17
ATOM	3834	N	LEU			40.863	56.246	93.146	1.00 29.93
ATOM	3835	CA	LEU	Α	483	40.352	57.159	92.160	1.00 27.80
MOTA	3836	C	LEU	Α	483	41.434	57.943	91.410	1.00 40.70
ATOM	3837	0	LEU			41.386	58.102	90.180	1.00 40.76
MOTA	3838	CB	LEU	A	483	39.265	58.049	92.819	1.00 22.54
MOTA	3839	CG	LEU	A	483	38.148	57.240	93.488	1.00 20.75
MOTA	3840	CD1	LEU	Α	483	37.170	58.165	94.197	1.00 19.29
ATOM	3841	CD2	LEU			37.389	56.467	92.414	1.00 21.46
ATOM	3842	N	ASN	A	484	42.410	58.446	92.162	1.00 36.15
MOTA	3843	CA	ASN			43.459	59.225	91.571	1.00 34.08
MOTA	3844	C	ASN	Α	484	44.168	58.524	90.429	1.00 39.51
ATOM	3845	0	ASN	Α	484	44.456	59.091	89.359	1.00 38.59
MOTA	3846	CB	asn			44.495	59.602	92.618	1.00 34.26
ATOM	3847	CG	asn	Α	484	45.807	59.955	91.941	1.00100.00
MOTA	3848	OD1	ASN	A	484	45.878	60.940	91.171	1.00100.00
MOTA	3849	ND2	asn	A	484	46.836	59.134	92.186	1.00100.00
MOTA	3850	N	SER	Α	485	44.472	57.268	90.698	1.00 35.37
ATOM	3851	CA	SER	A	485	45.202	56.417	89.791	1.00 32.79
MOTA	3852	C	SER	A	485	44.522	56.140	88.484	1.00 32.26
ATOM	3853	0	SER	A	485	45.159	55.925	87.463	1.00 32.44
ATOM	3854	CB	SER	A	485	45.565	55.132	90.477	1.00 38.65
MOTA	3855	OG	SER	A	485	46.040	55.437	91.777	1.00 62.66
MOTA	3856	N	PHE	A	486	43.222	56.110	88.491	1.00 27.13
MOTA	3857	CA	PHE	A	486	42.631	55.809	87.233	1.00 28.26
ATOM	3858	C	PHE	A	486	43.193	56.772	86.264	1.00 32.12
ATOM	3859	0	PHE	A	486	43.423	57.910	86.604	1.00 32.02
ATOM	3860	CB	PHE	A	486	41.101	55.819	87.198	1.00 31.01
MOTA	3861	CG	PHE	A	486	40.471	54.807	88.132	1.00 27.04
ATOM	3862	CD1	PHE	Α	486	40.504	53.425	87.911	1.00 22.43
ATOM	3863	CD2	PHE	A	486	39.805	55.293	89.253	1.00 21.40
MOTA	3864	CE1	PHE	A	486	39.896	52.538	88.804	1.00 19.69

MOTA	3865	CE2	PHE	Α	486	39.224	54.426	90.174	1.00 19.20
ATOM	3866	CZ			486	39.245	53.051	89.927	1.00 15.13
ATOM	3867	N			487	43.455	56.279	85.089	1.00 34.97
		CA			487	44.032	57.092	84.070	1.00 38.06
ATOM	3868								
MOTA	3869	C			487	43.491	56.622	82.758	1.00 43.55
MOTA	3870	0			487	42.951	55.537	82.604	1.00 46.30
MOTA	3871	CB			487	45.591	57.038	84.085	1.00 43.93
ATOM	3872	CG	ASN	Α	487	46.196	58.169	83.302	1.00 56.10
MOTA	3873	OD1	ASN	Α	487	46.057	58.189	82.077	1.00 42.12
MOTA	3874	ND2	ASN	A	487	46.829	59.112	84.007	1.00 65.62
MOTA	3875	N	ALA	A	488	43.662	57.435	81.781	1.00 39.34
ATOM	3876	CA	ALA	Α	488	43.201	57.055	80.472	1.00 38.25
ATOM	3877	C			488	44.024	55.900	79.809	1.00 43.58
ATOM	3878	ō			488	43.596	55.317	78.834	1.00 44.11
		СВ			488	43.153	58.314	79.621	1.00 37.54
ATOM	3879					45.207	55.555	80.314	1.00 37.34
MOTA	3880	N			489				
MOTA	3881	CA			489	45.996	54.499	79.715	1.00 36.16
MOTA	3882	C			489	45.270	53.181	79.792	1.00 45.74
MOTA	3883	0	THR	A	489	45.476	52.233	79.057	1.00 47.78
MOTA	3884	CB	THR	Α	489	47.296	54.458	80.503	1.00 31.01
MOTA	3885	0 <b>G</b> 1	THR	Α	489	46.961	54.457	81.872	1.00 35.33
MOTA	3886	CG2	THR	A	489	47.993	55.771	80.229	1.00 28.28
MOTA	3887	N	ASP	Α	490	44.337	53.182	80.708	1.00 46.75
ATOM	3888	CA	ASP	Α	490	43.560	52.018	80.972	1.00 51.49
MOTA	3889	С	ASP	Α	490	42.759	51.515	79.786	1.00 52.21
MOTA	3890	0	ASP			42.396	50.342	79.651	1.00 54.75
ATOM	3891	CB			490	42.676	52.345	82.184	1.00 54.04
MOTA	3892	CG			490	43.413	52.884	83.380	1.00 53.83
ATOM	3893		ASP			44.621	52.777	83.616	1.00 62.93
			ASP			42.565	53.446	84.165	1.00 35.66
MOTA	3894		LEU			42.486	52.450	78.938	1.00 33.00
ATOM	3895	N							1.00 43.54
ATOM	3896	CA			491	41.752	52.250	77.723	
MOTA	3897	C			491	42.712	51.977	76.585	1.00 43.97
MOTA	3898	0			491	42.340	51.438	75.588	1.00 42.53
MOTA	3899	CB			491	40.984	53.528	77.421	1.00 44.89
MOTA	3900	CG			491	39.794	53.747	78.338	1.00 48.31
MOTA	3901		LEU			38.558	54.171	77.552	1.00 49.16
MOTA	3902	CD2	<b>LEU</b>	A	491	39.377	52.494	79.125	1.00 39.24
MOTA	3903	N	LYS	Α	492	43.958	52.403	76.754	1.00 42.32
ATOM	3904	CA	LYS	A	492	44.999	52.320	75.696	1.00 44.57
MOTA	3905	С	LYS	Α	492	44.826	51.165	74.680	1.00 49.08
ATOM	3906	0	LYS	A	492	44.810	51.343	73.473	1.00 49.66
ATOM	3907	CB	LYS	Α	492	46.359	52.177	76.401	1.00 48.47
ATOM	3908	CG	LYS	Α	492	47.487	52.883	75.629	1.00 88.73
ATOM	3909	CD			492	48.852	52.537	76.197	1.00100.00
ATOM	3910	CE			492	48.786	51.460	77.300	1.00100.00
	3911	NZ			492	50.103	50.896	77.541	1.00100.00
MOTA			ASP			44.711	49.917	75.227	1.00 41.86
ATOM	3912	N							
MOTA	3913	CA	ASP			44.664	48.740	74.372	1.00 40.17
MOTA	3914	C			493	43.220	48.162	74.215	1.00 44.29
MOTA	3915	0	ASP			43.031	46.973	73.889	1.00 42.00
MOTA	3916	CB	ASP			45.560	47.699	75.015	1.00 41.52
ATOM	3917	CG			493	47.021	48.130	74.956	1.00 67.01
MOTA	3918		ASP			47.467	48.451	73.856	1.00 77.10
ATOM	3919	OD2	ASP	A	493	47.678	48.131	75.984	1.00 57.19
MOTA	3920	N	LEU	A	494	42.193	49.005	74.475	1.00 40.69
MOTA	3921	CA	LEU	Α	494	40.789	48.512	74.526	1.00 36.32
ATOM	3922	C	LEU	A	494	39.992	48.877	73.245	1.00 37.76

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ATOM	3923	0	LEU			39.897	50.029	72.863	1.00 38.93
MOTA	3924	CB	LEU			40.098	49.125	75.733	1.00 32.52
MOTA	3925	CG	LEU			40.376	48.433	77.063	1.00 30.66
ATOM	3926		LEU			39.229	48.580	78.052	1.00 30.39
MOTA	3927		LEU			40.611	46.925	76.918	1.00 23.54
MOTA	3928	N			495	39.477	47.825	72.631	1.00 25.56
ATOM	3929	CA			495	38.674	48.017	71.457	1.00 22.23
ATOM	3930	С			495	37.344	48.670	71.856	1.00 31.27
MOTA	3931	0	SER	A	495	36.968	48.706	73.038	1.00 31.21
ATOM	3932	CB	SER	A	495	38.380	46.705	70.795	1.00 20.88
MOTA	3933	OG	SER	A	495	37.192	46.143	71.317	1.00 33.60
MOTA	3934	N	SER	Α	496	36.627	49.184	70.865	1.00 29.48
ATOM	3935	CA	SER	Α	496	35.363	49.821	71.139	1.00 26.67
ATOM	3936	C	SER	A	496	34.495	48.747	71.744	1.00 29.54
MOTA	3937	0	SER	A	496	33.744	48.960	72.697	1.00 24.80
ATOM	3938	CB	SER	A	496	34.760	50.441	69.894	1.00 24.67
MOTA	3939	OG	SER	A	496	33.749	49.597	69.397	1.00 48.80
MOTA	3940	N	HIS	Α	497	34.674	47.547	71.219	1.00 26.61
MOTA	3941	CA	HIS	A	497	33.949	46.383	71.750	1.00 29.22
MOTA	3942	C	HIS	Α	497	34.156	46.148	73.275	1.00 37.24
MOTA	3943	0	HIS	Α	497	33.238	45.863	74.041	1.00 38.21
MOTA	3944	CB	HIS	A	497	34.364	45.106	70.978	1.00 30.69
MOTA	3945	CG	HIS	Α	497	34.182	45.348	69.545	1.00 34.29
ATOM	3946	ND1	HIS	Α	497	32.943	45.204	68.962	1.00 35.42
ATOM	3947	CD2	HIS	Α	497	35.054	45.833	68.622	1.00 36.68
MOTA	3948	CE1	HIS	A	497	33.075	45.531	67.702	1.00 35.05
MOTA	3949	NE2	HIS	Α	497	34.330	45.932	67.462	1.00 35.88
ATOM	3950	N	GLN	A	498	35.406	46.243	73.715	1.00 33.56
ATOM	3951	CA	GLN	A	498	35.737	46.008	75.094	1.00 29.69
MOTA	3952	С	GLN	Α	498	35.263	47.122	75.965	1.00 27.11
MOTA	3953	0	GLN	Α	498	34.842	46.930	77.089	1.00 23.92
ATOM	3954	CB	GLN	Α	498	37.221	45.659	75.248	1.00 29.95
ATOM	3955	CG	GLN	A	498	37.582	44.317	74.544	1.00 25.78
MOTA				n				- 4	
7-2-T O1-1	3956	СD	GLiN	~	498	39.074	44.084	74.535	1.00 28.64
ATOM	3956 3957	CD OE1	GLN			39.074 39.796	44.084	74.535	1.00 28.64 1.00 26.62
				A	498				
ATOM	3957	OE1	GLN	A A	498 498	39.796	44.891	73.960	1.00 26.62
ATOM ATOM ATOM	3957 3958	OE1 NE2	GLN GLN	A A A	498 498 499	39.796 39.561	44.891 43.049	73.960 75.218	1.00 26.62 1.00 20.96
MOTA MOTA	3957 3958 3959 3960	OE1 NE2 N	GLN GLN LEU	A A A	498 498 499 499	39.796 39.561 35.289 34.819	44.891 43.049 48.301 49.396	73.960 75.218 75.431 76.229	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32
ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961	OE1 NE2 N CA	GLN GLN LEU LEU	A A A A	498 498 499 499	39.796 39.561 35.289 34.819 33.351	44.891 43.049 48.301 49.396 49.162	73.960 75.218 75.431 76.229 76.632	1.00 26.62 1.00 20.96 1.00 27.13
ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960	OE1 NE2 N CA C	LEU LEU GLN GLN	A A A A	498 498 499 499 499	39.796 39.561 35.289 34.819	44.891 43.049 48.301 49.396 49.162 49.361	73.960 75.218 75.431 76.229	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39
ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963	OE1 NE2 N CA C O	GLN LEU LEU LEU LEU	A A A A A	498 498 499 499 499 499	39.796 39.561 35.289 34.819 33.351 32.893 34.991	44.891 43.049 48.301 49.396 49.162 49.361 50.709	73.960 75.218 75.431 76.229 76.632 77.780 75.436	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 29.41 1.00 31.70
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964	OE1 NE2 N CA C O CB	LEU LEU LEU LEU LEU LEU	A A A A A	498 498 499 499 499 499 499	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 29.41 1.00 31.70 1.00 39.76
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965	OE1 NE2 N CA C O CB CG CD1	GLN LEU LEU LEU LEU LEU LEU	A A A A A A	498 498 499 499 499 499 499	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 76.278	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 29.41 1.00 31.70 1.00 39.76 1.00 42.91
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966	OE1 NE2 N CA C O CB CG CD1 CD2	GLN LEU LEU LEU LEU LEU	A A A A A A A	498 498 499 499 499 499 499 499	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 76.278 74.555	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 29.41 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967	OE1 NE2 N CA C O CB CG CD1 CD2 N	GLN GLN LEU LEU LEU LEU LEU LEU LEU LEU LEU ASN	A A A A A A A A	498 498 499 499 499 499 499 499 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 76.278 74.555 75.642	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968	OE1 NE2 N CA C O CB CG CD1 CD2 N	GLN GLN LEU LEU LEU LEU LEU LEU LEU ASN ASN	A A A A A A A A A	498 498 499 499 499 499 499 499 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 76.278 74.555 75.642 75.828	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3969	OE1 NE2 N CA C O CB CG CD1 CD2 N CA	GLN LEU LEU LEU LEU LEU LEU LEU ASN ASN	A A A A A A A A A A	498 498 499 499 499 499 499 499 500 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 76.278 74.555 75.642 75.828 76.864	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3969 3970	OE1 NE2 N CA C O CB CG CD1 CD2 N CA C	GLN LEU LEU LEU LEU LEU LEU LEU ASN ASN ASN	A A A A A A A A A A A A A	498 498 499 499 499 499 499 499 500 500 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 76.278 74.555 75.642 75.828 76.864 77.705	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3969 3970 3971	OE1 NE2 N CA C O CB CCB CD1 CD2 N CA C O CB	GLN LEU LEU LEU LEU LEU LEU ASN ASN ASN ASN	A A A A A A A A A A A A A A	498 499 499 499 499 499 499 500 500 500 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997 30.604	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602 48.129	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 74.555 75.642 75.828 76.864 77.705 74.476	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01 1.00 12.21
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3969 3970 3971	OE1 NE2 N CA C O CB CG CD1 CD2 N CA C O CB	GLN GLN LEU LEU LEU LEU LEU ASN ASN ASN ASN ASN	A A A A A A A A A A A A	498 498 499 499 499 499 499 500 500 500 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997 30.604 29.093	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602 48.129 48.214	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 74.555 75.642 75.828 76.864 77.705 74.476 74.426	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01 1.00 37.49
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3969 3970 3971 3972 3973	OE1 NE2 N CA C O CB CG CD1 CD2 N CA C O CB CO CD0	GLN GLN LEU LEU LEU LEU LEU ASN ASN ASN ASN ASN ASN	A A A A A A A A A A A A A A A	498 499 499 499 499 499 499 500 500 500 500 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997 30.604 29.093 28.433	44.891 43.049 48.301 49.396 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602 48.129 48.214 49.151	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 74.555 75.642 75.828 76.864 77.705 74.476 74.426 74.930	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01 1.00 37.49 1.00 36.17
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3970 3971 3972 3973 3974	OE1 NE2 N CA C O CB CG CD1 CD2 N CA C O CB CM CD1 ND2	GLN GLN LEU LEU LEU LEU LEU ASN ASN ASN ASN ASN ASN ASN	A A A A A A A A A A A A A A A	498 499 499 499 499 499 499 500 500 500 500 500 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997 30.604 29.093 28.433 28.542	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602 48.129 48.214 49.151 47.218	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 74.555 75.642 75.828 76.864 77.705 74.476 74.426 74.930 73.787	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01 1.00 37.49 1.00 36.17 1.00 18.34
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3968 3970 3971 3972 3973 3974 3975	OE1 NE2 N CA C O CB CG CD1 CD2 N CA C O CB N CA N C O CB N C O C O C O C O C O C O C O C O C O C	GLN GLN LEU LEU LEU LEU ASN ASN ASN ASN ASN ASN ASN GSN GLU	A A A A A A A A A A A A A A A	498 499 499 499 499 499 499 500 500 500 500 500 500 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997 30.604 29.093 28.433 28.542 31.699	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602 48.129 48.214 49.151 47.218 46.366	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 74.555 75.642 75.828 76.864 77.705 74.476 74.426 74.930 73.787 76.743	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 39.76 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01 1.00 37.49 1.00 36.17 1.00 18.34 1.00 18.34
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3978 3971 3972 3973 3974 3975 3976	OE1 NE2 N CA C O CB CG CD1 CD2 N CA C O CB CG OD1 ND2 N CA	GLN GLN LEU LEU LEU LEU ASN ASN ASN ASN ASN ASN ASN GLU GLU	A A A A A A A A A A A A A A A A A	498 499 499 499 499 499 499 500 500 500 500 500 500 500 500	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997 30.604 29.093 28.433 28.542 31.699 31.626	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602 48.129 48.214 49.151 47.218 46.366 45.224	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 74.555 75.642 75.828 76.864 77.705 74.476 74.426 74.930 73.787 76.743 77.625	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 29.41 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01 1.00 37.49 1.00 36.17 1.00 18.34 1.00 14.20 1.00 13.27
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3971 3972 3973 3974 3975 3976 3977	OE1 NE2 N CA C O CB CG CD1 CA C O CB CM CA C O CB CG CD1 CA C C C C C C C C C C C C C C C C C C	GLN GLN LEU LEU LEU LEU LEU ASN ASN ASN ASN ASN GSN GLU GLU	A A A A A A A A A A A A A A A A A	498 498 499 499 499 499 499 500 500 500 500 500 501 501	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997 30.604 29.093 28.433 28.542 31.699 31.626 31.948	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602 48.129 48.214 49.151 47.218 46.366 45.224 45.676	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 74.555 75.642 75.828 76.864 77.705 74.476 74.426 74.930 73.787 76.743 77.625 79.063	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 29.41 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01 1.00 37.49 1.00 36.17 1.00 18.34 1.00 14.20 1.00 13.27 1.00 21.59
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3971 3972 3973 3974 3975 3976 3977	OE1 NE2 N CA C O CB CG CD1 CD2 N CA C O CB CG OD1 ND2 N CA C O CB OD1 OD2 O CB OD1 OD2 O CB OD1 O CD	GLN GLN LEU LEU LEU LEU ASN ASN ASN ASN ASN GSN GLU GLU GLU	A A A A A A A A A A A A A A A A A A A	498 498 499 499 499 499 499 500 500 500 500 500 501 501	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997 30.604 29.093 28.433 28.542 31.699 31.626 31.948 31.175	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602 48.129 48.214 49.151 47.218 46.366 45.224 45.676 45.463	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 74.555 75.642 75.828 76.864 77.705 74.476 74.426 74.930 73.787 76.743 77.625 79.063 80.009	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 29.41 1.00 31.70 1.00 39.76 1.00 42.91 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01 1.00 37.49 1.00 36.17 1.00 18.34 1.00 14.20 1.00 13.27 1.00 21.59 1.00 25.02
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3957 3958 3959 3960 3961 3962 3963 3964 3965 3966 3967 3971 3972 3973 3974 3975 3976 3977	OE1 NE2 N CA C O CB CG CD1 CA C O CB CM CA C O CB CG CD1 CA C C C C C C C C C C C C C C C C C C	GLN GLN LEU LEU LEU LEU LEU ASN ASN ASN ASN ASN GSN GLU GLU	A A A A A A A A A A A A A A A A A A A	498 498 499 499 499 499 499 500 500 500 500 500 501 501 501	39.796 39.561 35.289 34.819 33.351 32.893 34.991 36.242 37.335 36.718 32.606 31.213 30.919 29.997 30.604 29.093 28.433 28.542 31.699 31.626 31.948	44.891 43.049 48.301 49.396 49.162 49.361 50.709 51.512 50.572 52.268 48.737 48.508 47.455 47.602 48.129 48.214 49.151 47.218 46.366 45.224 45.676	73.960 75.218 75.431 76.229 76.632 77.780 75.436 75.788 74.555 75.642 75.828 76.864 77.705 74.476 74.426 74.930 73.787 76.743 77.625 79.063	1.00 26.62 1.00 20.96 1.00 27.13 1.00 29.32 1.00 28.39 1.00 29.41 1.00 31.70 1.00 39.76 1.00 42.91 1.00 39.08 1.00 15.23 1.00 13.44 1.00 18.98 1.00 19.01 1.00 37.49 1.00 36.17 1.00 18.34 1.00 14.20 1.00 13.27 1.00 21.59

MOTA	3981	CD	GLU	A	501	30.946	42.399	78.199		39.28
MOTA	3982	0E1	GLU			30.050	42.672	77.413		76.70
ATOM	3983	OE2	GLU	A	501	30.780	41.694	79.292	1.00	46.10
MOTA	3984	N	PHE	A	502	33.059	46.400	79.226		18.07
MOTA	3985	CA	PHE	A	502	33.395	46.952	80.530		21.54
MOTA	3986	C	PHE	A	502	32.179	47.679	81.125	1.00	23.38
MOTA	3987	0	PHE	Α	502	31.786	47.491	82.301	1.00	21.47
ATOM	3988	CB	PHE	A	502	34.507	48.012	80.327	1.00	26.05
MOTA	3989	CG	PHE	A	502	34.590	49.082	81.393		30.41
ATOM	3990	CD1	PHE	A	502	35.085	48.781	82.662	1.00	29.68
MOTA	3991	CD2	PHE	A	502	34.211	50.402	81.132	1.00	39.16
MOTA	3992	CE1	PHE	A	502	35.183	49.773	83.638	1.00	31.12
MOTA	3993	CE2	PHE	A	502	34.305	51.414	82.096	1.00	40.46
MOTA	3994	CZ	PHE	A	502	34.812	51.090	83.352	1.00	35.41
MOTA	3995	N	LEU	A	503	31.613	48.557	80.288	1.00	18.39
MOTA	3996	CA	LEU	A	503	30.487	49.343	80.692	1.00	22.78
MOTA	3997	C	LEU	A	503	29.337	48.491	81.178	1.00	31.04
MOTA	3998	0	TEA	A	503	28.768	48.784	82.243	1.00	29.23
ATOM	3999	CB	LEU	Α	503	30.002	50.325	79.619	1.00	24.68
ATOM	4000	CG	LEU	A	503	30.888	51.571	79.465	1.00	27.47
MOTA	4001	CD1	LEU	A	503	30.415	52.376	78.259	1.00	24.86
MOTA	4002	CD2	LEU	Α	503	30.860	52.420	80.733	1.00	20.54
ATOM	4003	N	ALA	A	504	29.012	47.444	80.378	1.00	27.79
MOTA	4004	CA	ALA	A	504	27.911	46.474	80.643	1.00	24.63
MOTA	4005	C	ALA	A	504	28.140	45.752	81.939	1.00	27.71
MOTA	4006	0	ALA	A	504	27.265	45.577	82.817	1.00	28.62
MOTA	4007	CB	ALA	A	504	27.762	45.482	79.496		23.87
ATOM	4008	N	GLN	Α	505	29.382	45.344	82.066		22.16
MOTA	4009	CA	GLN	A	505	29.738	44.710	83.299		21.02
ATOM	4010	C	GLN	A	505	29.489	45.737	84.423		31.26
MOTA	4011	0	GLN	A	505	28.787	45.507	85.413		32.31
MOTA	4012	CB	GLN			31.202	44.209	83.270		18.95
MOTA	4013	CG	GLN			31.367	42.881	82.495		13.72
MOTA	4014	CD	GLN			32.806	42.549	82.136		31.75
MOTA	4015	OE1				33.796	42.969	82.768		43.14
MOTA	4016	NE2	GLN			32.923	41.781	81.085		39.34
MOTA	4017	И	THR			30.056		84.263		25.95
MOTA	4018	CA	THR			29.855	47.864	85.302		23.64
MOTA	4019	C	THR			28.411	48.101	85.579		23.89
ATOM	4020	0	THR			27.923	47.999	86.696		22.75
ATOM	4021	CB	THR			30.600	49.130	85.008		23.72
MOTA	4022	OG1					48.749	84.742 86.260		27.18 11.12
ATOM	4023		THR			30.502	49.961 48.408	84.518		17.92
MOTA	4024	N	LEU			27.727	48.683	84.604		17.22
MOTA	4025	CA	LEU			26.334		85.442		25.65
ATOM	4026	C	LEU			25.618 24.816	47.683 48.073	86.266		27.85
ATOM	4027	0	LEU			25.693	48.686	83.224		17.85
ATOM	4028	CB	LEU			24.207		83.336		21.02
MOTA	4029	CG	FEO			23.974	50.290	83.970		22.48
MOTA	4030		LEU			23.599		81.949		15.25
ATOM	4031							85.194		21.35
MOTA	4032 4033	N CA	GLN GLN			25.878 25.215	45.333	85.979		18.08
MOTA	4033	CA	GLN			25.215	45.561	87.508		34.24
ATOM ATOM	4034	0	GLN			24.653	45.017	88.343		34.04
ATOM	4035	CB	GLN			25.713		85.608		10.94
MOTA	4037	CG	GLN			25.366		84.191		26.42
ATOM	4037	CD	GLN			25.635	41.944	84.002		52.93
MION	4030	CD.	CTIM	_	200	25.055	22.222	34.002		J J.

ATOM	4039	OE1	GLN	A	508	26.550	41.396	84.628	1.00 32.89
ATOM	4040	NE2	GLN	Α	508	24.864	41.252	83.147	1.00 34.36
ATOM	4041	N			509	26.380	46.361	87.901	1.00 33.73
ATOM	4042	CA			509	26.600	46.614	89.328	1.00 32.53
MOTA	4043	C			509	26.153	48.016	89.727	1.00 33.63
ATOM		0			509	26.509	48.522	90.777	
	4044								1.00 31.08
ATOM	4045	CB			509	28.055	46.440	89.760	1.00 29.22
MOTA	4046	CG			509	28.553	45.014	89.733	1.00 29.78
ATOM	4047	CD			509	27.744	44.054	90.609	1.00 30.86
MOTA	4048	NE			509	28.533	43.602	91.756	1.00 82.23
MOTA	4049	CZ	-		509	29.842	43.274	91.726	1.00100.00
MOTA	4050	NH1	ARG	A	509	30.579	43.315	90.613	1.00 92.85
MOTA	4051	NH2	ARG	A	509	30.430	42.881	92.855	1.00 91.85
ATOM	4052	N	ALA	A	510	25.384	48.659	88.880	1.00 32.59
MOTA	4053	CA	ALA	Α	510	24.952	49.985	89.215	1.00 32.51
MOTA	4054	C	ALA	Α	510	24.151	49.845	90.479	1.00 34.97
ATOM	4055	0			510	23.601	48.785	90.693	1.00 37.57
ATOM	4056	СВ			510	24.189	50.622	88.063	1.00 32.91
ATOM	4057	N			511	24.174	50.856	91.334	1.00 25.14
ATOM	4058	CA			511	24.867	52.102	91.052	1.00 21.00
MOTA	4059	C			511	26.217	52.178	91.694	1.00 21.00
		0			511	26.445	51.601	92.723	1.00 28.16
MOTA	4060				511				
ATOM	4061	CB				24.102	53.169	91.818	1.00 21.55
MOTA	4062	CG			511	23.316	52.432	92.886	1.00 28.68
ATOM	4063	CD			511	23.169	50.995	92.407	1.00 25.16
ATOM	4064	N			512	27.094	52.968	91.109	1.00 32.95
MOTA	4065	CA	LEU			28.394	53.188	91.686	1.00 33.42
ATOM	4066	С			512	28.287	54.512	92.397	1.00 38.65
MOTA	4067	0			512	27.388	55.305	92.114	1.00 40.69
MOTA	4068	CB	LEU			29.453	53.350	90.587	1.00 34.40
MOTA	4069	CG	LEU			30.178	52.049	90.216	1.00 40.13
MOTA	4070	CD1	LEU	Α	512	29.222	51.086	8 <i>9</i> .508	1.00 39.04
MOTA	4071	CD2	LEU	A	512	31.322	52.385	89.273	1.00 44.61
ATOM	4072	N	PRO	A	513	29.196	54.781	93.312	1.00 31.05
MOTA	4073	CA	PRO	A	513	29.167	56.058	94.008	1.00 27.16
MOTA	4074	С	PRO	A	513	29.296	57.203	93.019	1.00 23.76
MOTA	4075	0	PRO	Α	513	30.121	57.182	92.118	1.00 27.17
MOTA	4076	CB	PRO	A	513	30.387	56.013	94.948	1.00 25.59
ATOM	4077	CG	PRO	A	513	30.702	54.542	95.149	1.00 27.14
ATOM	4078	CD	PRO	A	513	30.030	53.779	94.032	1.00 25.00
ATOM	4079	N.	LEU	Α	514	28.478	58.203	93.185	1.00 22.92
ATOM	4080	CA			514	28.516	59.350	92.279	1.00 27.55
ATOM	4081	C	LEU			29.930	59.766	91.940	1.00 31.95
ATOM	4082	0	LEU			30.287	59.908	90.765	1.00 37.11
ATOM	4083	CB	LEU			27.673	60.564	92.741	1.00 30.03
ATOM	4084	CG	LEU			27.428	61.626	91.648	1.00 32.87
ATOM	4085		LEU			26.648	61.082	90.440	1.00 28.48
ATOM	4086		LEU			26.699	62.780	92.272	1.00 31.16
ATOM		N N	GLY			30.731	59.989	92.979	1.00 31.10
	4087	CA	GLY				60.384	92.811	1.00 25.59
ATOM	4088					32.131			1.00 23.33
ATOM	4089	C	GLY			32.902	59.472	91.835	
ATOM	4090	0	GLY			33.746	59.914	91.035	1.00 35.67
MOTA	4091	N	HIS			32.602	58.180	91.891	1.00 26.40
ATOM	4092	CA	HIS			33.257	57.255	90.998	1.00 25.86
MOTA	4093	C	HIS			32.911	57.578	89.560	1.00 27.62
MOTA	4094	0	HIS			33.786	57.596	88.695	1.00 28.67
MOTA	4095	CB	HIS			32.826	55.814	91.282	1.00 25.39
ATOM	4096	CG	HIS	Α	516	33.452	55.283	92.505	1.00 27.96

ATOM	4097		HIS				33.635	56.092	93.602	1.00 30.14
MOTA	4098	CD2	HIS	A	516		33.929	54.037	92.791	1.00 27.79
MOTA	4099		HIS				34.205	55.336	94.534	1.00 27.58
MOTA	4100	NE2	HIS	Α	516		34.390	54.099	94.085	1.00 27.02
ATOM	4101	N	ILE	A	517		31.617	57.815	89.315	1.00 21.40
MOTA	4102	CA	ILE	Α	517		31.137	58.107	87.973	1.00 22.75
ATOM	4103	C	ILE	A	517		31.706	59.424	87.462	1.00 31.09
ATOM	4104	0			517		32.246	59.558	86.352	1.00 28.78
ATOM	4105	СВ			517		29.601	58.024	87.930	1.00 27.12
ATOM	4106	CG1			517		29.225	56.610	88.312	1.00 29.40
ATOM	4107	CG2			517		29.013	58.285	86.536	1.00 25.49
ATOM	4108	CD1			517		29.305	55.665	87.105	1.00 23.43
	4109	N	LYS				31.589	60.416	88.308	1.00 27.28
ATOM		CA	LYS							1.00 27.28
ATOM	4110						32.108	61.690	87.955	
ATOM	4111	C	LYS				33.558	61.482	87.485	1.00 24.03
ATOM	4112	0	LYS				33.982	61.831	86.391	1.00 26.08
MOTA	4113	CB	LYS				32.038	62.557	89.210	1.00 24.00
ATOM	4114	CG	LYS				30.641	63.060	89.591	1.00 19.24
ATOM	4115	CD	LYS				30.721	64.276	90.537	1.00 27.93
MOTA	4116	CE	LYS				29.379	64.877	90.962	1.00 37.11
ATOM	4117	NZ	LYS				28.924	65.988	90.104	1.00 52.30
ATOM	4118	N	ARG				34.322	60.899	88.361	1.00 17.90
MOTA	4119	CA	ARG	A	519		35.703	60.636	88.098	1.00 20.80
ATOM	4120	С	ARG	A	519		35.862	59.874	86.802	1.00 28.98
ATOM	4121	0	ARG	A	519		36.812	60.084	86.051	1.00 29.86
MOTA	4122	CB	ARG	A	519		36.313	59.844	89.276	1.00 20.56
MOTA	4123	CG	ARG	A	519		37.721	59.308	89.036	1.00 29.02
ATOM	4124	CD	ARG	А	519		38.668	60.320	88.404	1.00 41.17
MOTA	4125	NE	ARG	A	519		40.086	60.008	88.616	1.00 59.84
MOTA	4126	CZ	ARG	A	519	•	41.076	60.858	88.349	1.00 50.77
MOTA	4127	NH1	ARG	A	519		40.838	62.073	87.880	1.00 31.21
MOTA	4128	NH2	ARG	A	519		42.329	60.486	88.543	1.00 31.86
MOTA	4129	N	MET	A	520		34.937	58.956	86.565	1.00 25.08
ATOM	4130	CA	MET	А	520		34.979	58.121	85.379	1.00 24.56
MOTA	4131	C	MET	A	520		34.906	58.918	84.086	1.00 29.37
MOTA	4132	0	MET	A	520		35.651	58.687	83.114	1.00 27.92
ATOM	4133	CB	MET	A	520		33.905	57.007	85.442	1.00 26.98
MOTA	4134	CG	MET	A	520		34.082	55.902	84.399	1.00 28.02
MOTA	4135	SD	MET	Α	520		32.830	54.591	84.479	1.00 27.87
ATOM	4136	CE	MET	Α	520		33.246	53.825	86.070	1.00 22.09
ATOM	4137	N	GLN	A	521		33.982	59.864	84.067	1.00 28.32
ATOM	4138	CA	GLN	Α	521		33.838	60.672	82.886	1.00 28.34
ATOM	4139	C	GLN	A	521		35.067	61.540	82.785	1.00 36.52
MOTA	4140	0	GLN				35.514	61.879	81.707	1.00 35.87
MOTA	4141	CB	GLN				32.514	61.451	82.863	1.00 28.34
ATOM	4142	CG	GLN				32.564	62.774	82.079	1.00 9.68
ATOM	4143	CD	GLN				32.890	62.572	80.616	1.00 27.55
ATOM	4144		GLN				33.382	63.491	79.924	1.00 28.25
MOTA	4145		GLN				32.657	61.368	80.142	1.00 25.70
ATOM	4146	N	GLU				35.626	61.827	83.963	1.00 36.19
ATOM	4147	CA	GLU				36.818	62.648	84.171	1.00 36.13
ATOM	4148	C	GLU				38.136	62.046	83.662	1.00 42.48
ATOM	4149	0	GLU				39.099	62.735	83.335	1.00 42.40
ATOM	4150	СВ	GLU				36.857	63.035	85.641	1.00 37.79
ATOM	4151	CG	GLU				38.233	63.035	86.273	1.00 58.85
ATOM	4152	CD	GLU				38.046	64.040	87.493	1.00 73.64
ATOM	4153		GLU				37.006	64.641	87.709	1.00 /3.64
ATOM	4154		GLU				39.081	64.037	88.289	1.00 47.91
11 OF	1171	- LIL	3110	'n	J & L			54.057	50.203	2.00 47.91
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ATOM	4155	N	VAL A		38.188	60.739	83.552	1.00 40.13
ATOM	4156	CA	VAL A		39.401	60.136	83.058	1.00 37.49
ATOM	4157	C	VAL A		39.205	59.351	81.778	1.00 38.88
MOTA	4158	0	VAL A	. 523	40.195	59.016	81.138	1.00 40.21
ATOM	4159	CB	VAL A	. 523	40.184	59.370	84.102	1.00 40.01
MOTA	4160	CG1	VAL A	. 523	40.231	60.165	85.413	1.00 39.12
MOTA	4161	CG2	VAL A	. 523	39.534	58.017	84.320	1.00 39.82
MOTA	4162	N	TYR A	. 524	37.952	59.048	81.379	1.00 30.35
MOTA	4163	CA	TYR A	. 524	37.801	58.330	80.114	1.00 28.11
ATOM	4164	C	TYR A	524	37.061	59.144	79.074	1.00 33.14
MOTA	4165	0	TYR A	524	37.076	58.802	77.908	1.00 35.84
ATOM	4166	CB	TYR A	. 524	37.281	56.878	80.119	1.00 25.56
ATOM	4167	CG	TYR A	524	37.941	55.960	81.111	1.00 20.87
MOTA	4168	CD1	TYR A	. 524	39.324	55.938	81.258	1.00 21.59
MOTA	4169	CD2	TYR A		37.170	55.083	81.879	1.00 19.80
MOTA	4170	CE1	TYR A		39.905	55.063	82.176	1.00 25.64
ATOM	4171	CE2	TYR A		37.731	54.227	82.827	1.00 18.61
ATOM	4172	CZ	TYR A		39.116	54.231	82.969	1.00 19.81
ATOM	4173	OH	TYR A		39.706	53.402	83.863	1.00 23.92
ATOM	4174	N	ASN A		36.416	60.221	79.496	1.00 25.98
ATOM	4175	CA	ASN A		35.687	61.088	78.588	1.00 25.01
ATOM	4176	C	ASN A		34.661	60.354	77.735	1.00 29.86
MOTA	4177	0	ASN A		34.533	60.535	76.499	1.00 29.39
ATOM	4178	CB	ASN A		36.637	61.922	77.739	1.00 29.55
ATOM	4179	CG	ASN A		35.949	62.980	76.894	1.00 30.32
ATOM	4180		ASN A		36.460	63.332	75.850	1.00 30.32
ATOM	4181	ND2	ASN A		34.822	63.527	77.344	1.00 32.77
ATOM	4182	ND2	PHE A		33.924	59.512	78.436	1.00 13.80
MOTA	4183	CA	PHE A		32.900	58.745	77.807	1.00 25.14
ATOM	4184	C	PHE A		31.846	59.631	77.214	1.00 23.14
		0	PHE A			59.241	76.272	1.00 31.74
MOTA	4185	СВ	PHE A		31.161	57.732	78.781	1.00 34.99
MOTA MOTA	4186 4187	CG	PHE A		32.256 33.115	56.499	78.978	1.00 23.82
								1.00 25.02
ATOM	4188	CD2	PHE A		34.017	56.080	78.000	
ATOM	4189		PHE A		33.031	55.767	80.159	1.00 21.74
ATOM	4190		PHE A		34.783	54.927	78.173	1.00 27.63
ATOM	4191		PHE A		33.817	54.634	80.370	1.00 25.42
ATOM	4192	CZ	PHE A		34.683	54.202	79.364	1.00 25.28
ATOM	4193	N	ASN A		31.689	60.815	77.760	1.00 28.22
ATOM	4194	CA	ASN A		30.657	61.688	77.214	1.00 31.18
ATOM	4195	c	ASN A		30.884	62.046	75.744	1.00 33.17
MOTA	4196	0	ASN A		29.965	62.394		1.00 30.80
ATOM	4197	CB	ASN A		30.479	62.967	78.052	1.00 36.41
MOTA	4198	CG	ASN A		29.638	62.752	79.292	1.00 46.99
ATOM	4199		ASN A		29.647	63.571	80.209	1.00 36.82
ATOM	4200		ASN A		28.922	61.636	79.338	1.00 43.55
ATOM	4201	N	ALA A		32.136	61.947	75.348	1.00 27.46
ATOM	4202	CA	ALA A		32.581	62.278	74.005	1.00 26.48
MOTA	4203	C	ALA A		32.335	61.188	72.950	1.00 32.09
ATOM	4204	0	ALA A		32.420	61.404	71.753	1.00 32.09
MOTA	4205	CB	ALA A		34.076	62.584	74.105	1.00 26.04
MOTA	4206	N	ILE A		32.067	59.983	73.402	1.00 31.35
MOTA	4207	CA	ILE A		31.854	58.859	72.529	1.00 28.47
ATOM	4208	C	ILE A		30.492	58.904	71.887	1.00 35.96
ATOM	4209	0	ILE A	529	29.486	59.023	72.578	1.00 38.79
ATOM	4210	CB	ILE A		32.103	57.544	73.264	1.00 30.17
MOTA	4211	CG1				57.291	73.392	1.00 31.37
ATOM	4212	CG2	ILE A	529	31.428	56.411	72.489	1.00 27.63

MOTA	4213		ILE			34.059	56.515	74.635	1.00 33.41
ATOM	4214	N	asn			30.462	58.806	70.559	1.00 34.86
ATOM	4215	CA	ASN			29.196	58.841	69.852	1.00 36.44
ATOM	4216	C	asn			28.596	57.495	69.473	1.00 39.90
MOTA	4217	0	ASN			27.452	57.437	69.043	1.00 41.37
MOTA	4218	CB	ASN			28.951	60.044	68.928	1.00 51.44
MOTA	4219	CG	asn	Α	530	28.461	61.253	69.732	1.00100.00
MOTA	4220	OD1	asn	Α	530	27.652	61.109	70.665	1.00100.00
MOTA	4221	ND2	asn	Α	530	28.955	62.442	69.392	1.00 91.39
MOTA	4222	N	ASN	A	531	29.368	56.403	69.688	1.00 30.37
ATOM	4223	CA	ASN	A	531	28.912	55.030	69.446	1.00 28.14
MOTA	4224	C	ASN	Α	531	27.696	54.753	70.360	1.00 32.80
MOTA	4225	0	ASN	A	531	27.746	54.887	71.611	1.00 36.74
MOTA	4226	CB	ASN	A	531	30.092	54.066	69.690	1.00 24.31
MOTA	4227	CG	ASN	A	531	29.770	52.601	69.730	1.00 34.44
ATOM	4228	OD1	ASN	A	531	28.795	52.182	70.359	1.00 36.49
MOTA	4229	ND2	ASN	A	531	30.643	51.810	69.099	1.00 30.57
MOTA	4230	N	SER	Α	532	26.570	54.403	69.734	1.00 22.02
MOTA	4231	CA	SER	A	532	25.325	54.183	70.459	1.00 19.67
ATOM	4232	C	SER	A	532	25.323	53.208	71.627	1.00 26.15
ATOM	4233	0	SER	A	532	24.767	53.475	72.680	1.00 26.64
ATOM	4234	CB	SER	Α	532	24.090	54.034	69.582	1.00 26.92
ATOM	4235	OG	SER	Α	532	24.294	53.211	68.452	1.00 23.59
ATOM	4236	N	GLU	A	533	25.929	52.062	71.423	1.00 22.68
ATOM	4237	CA	GLU	A	533	25.995	51.036	72.420	1.00 22.97
ATOM	4238	С	GLU	A	533	26.677	51.569	73.635	1.00 30.48
MOTA	4239	0	GLU	A	533	26.125	51.539	74.749	1.00 31.13
ATOM	4240	CB	GLU	A	533	26.683	49.779	71.850	1.00 23.96
MOTA	4241	CG	GLU	A	533	25.827	49.146	70.733	1.00 20.82
MOTA	4242	CD	GLU	A	533	24.611	48.450	71.276	1.00 40.65
MOTA	4243	OE1	GLU	A	533	24.432	48.256	72.476	1.00 36.25
MOTA	4244	OE2	GLU	A	533	23.782	48.038	70.339	1.00 25.87
ATOM	4245	N	ILE	A	534	27.872	52.101	73.392	1.00 26.20
ATOM	4246	CA	ILE	A	534	28.622	52.672	74.484	1.00 26.32
ATOM	4247	C	ILE	А	534	27.900	53.849	75.121	1.00 27.83
MOTA	4248	0	ILE	A	534	27.697	53.911	76.326	1.00 26.54
MOTA	4249	CB	ILE	A	534	30.051	53.022	74.102	1.00 29.16
MOTA	4250	CG1	ILE	Α	534	30.738	51.808	73.479	1.00 29.47
MOTA	4251	CG2	IFE	A	534	30.801	53.458	75.353	1.00 28.28
MOTA	4252	CD1	ILE	A	534	32.038	52.184	72.765	1.00 34.99
MOTA	4253	N	ARG	A	535	27.480	54.805	74.320	1.00 24.30
MOTA	4254	CA	ARG	Α	535	26.804	55.898	74.949	1.00 22.51
MOTA	4255	С	ARG	A	535	25.573	55.401	75.701	1.00 28.19
MOTA	4256	0	ARG	Α	535	25.212	55.808	76.791	1.00 32.61
MOTA	4257	CB	ARG	A	535	26.457	56.942	73.913	1.00 24.83
MOTA	4258	CG	ARG	Ą	535	25.970	58.229	74.541	1.00 21.49
ATOM	4259	CD	ARG	А	535	25.327	59.183	73.554	1.00 13.79
MOTA	4260	NE	ARG	A	535	25.194	60.457	74.213	1.00 31.38
MOTA	4261	CZ	ARG	A	535	26.256	61.140	74.554	1.00 29.41
MOTA	4262	NH1	ARG	A	535	27.463	60.677	74.259	1.00 26.45
MOTA	4263	NH2	ARG	A	535	26.110	62.302	75.195	1.00 19.99
MOTA	4264	N	PHE	Α	536	24.911	54.466	75.126	1.00 23.44
MOTA	4265	CA	PHE	A	536	23.740	53.980	75.770	1.00 22.05
MOTA	4266	С	PHE	A	536	23.976	53.555	77.199	1.00 22.74
MOTA	4267	0	PHE	A	536	23.349	54.113	78.105	1.00 22.06
ATOM	4268	CB	PHE	A	536	23.117	52.865	74.919	1.00 23.17
MOTA	4269	CG	PHE	A	536	22.040	52.153	75.658	1.00 21.92
MOTA	4270	CD1	PHE	A	536	20.933	52.845	76.150	1.00 22.66

ATOM	4271	CD2	PHE	Α	536	22.145	50.783	75.882	1.00 23.25
MOTA	4272	CE1	PHE	A	536	19.926	52.181	76.847	1.00 21.23
MOTA	4273	CE2	PHE	A	536	21.147	50.101	76.576	1.00 24.70
MOTA	4274	CZ	PHE	Α	536	20.047	50.811	77.065	1.00 20.57
ATOM	4275	N			537	24.863	52.560	77.364	1.00 18.22
ATOM	4276	CA			537	25.239	51.995	78.665	1.00 19.20
ATOM	4277	C			537	25.932	52.963	79.618	1.00 27.62
ATOM	4278	ō			537	25.803	52.845	80.837	1.00 26.73
ATOM	4279	CB			537	26.035	50.709	78.556	1.00 18.91
ATOM	4280	CG			537	25.318	49.656	77.708	1.00 16.55
ATOM	4281	CD			537	26.181	48.426	77.387	1.00 21.58
ATOM	4282	NE			537	25.341	47.357	76.886	1.00 28.42
ATOM	4283	CZ			537	25.060	47.206	75.609	1.00 28.42
ATOM	4284		ARG			25.569	48.004	74.703	1.00 22.46
ATOM	4285		ARG			24.240	46.236	75.224	1.00 25.22
ATOM	4286	N			538	26.668	53.930	79.064	1.00 24.21
ATOM	4287	CA			538	27.337	54.918		
		C			538			79.867	1.00 22.11
ATOM	4288					26.274	55.719 55.951	80.550	1.00 28.09
ATOM	4289	0			538	26.320		81.741	1.00 27.39
ATOM	4290	CB			538 538	28.064	55.888	78.949	1.00 20.48
ATOM	4291	CG				28.606	57.157	79.580	1.00 21.29
ATOM	4292	CD1			538	28.641	58.345	78.968	1.00 22.86
ATOM	4293	CD2			538	29.286	57.352	80.845	1.00 21.79
ATOM	4294		TRP			29.228	59.270	79.769	1.00 22.70
ATOM	4295	CE2			538	29.643	58.696	80.911	1.00 24.79
ATOM	4296	CE3			538	29.574	56.535	81.946	1.00 23.35
ATOM	4297		TRP			30.280	59.248	82.025	1.00 25.89
ATOM	4298	CZ3			538	30.203	57.056	83.046	1.00 23.35
ATOM	4299	CH2			538	30.562	58.405	83.081	1.00 24.89
MOTA	4300	N			539	25.303	56.161	79.758	1.00 27.31
ATOM	4301	CA			539	24.229	56.974	80.306	1.00 27.18
ATOM	4302	C O			539 539	23.369	56.245	81.332	1.00 28.25
MOTA	4303	CB			539	22.857	56.822	82.266	1.00 27.19
ATOM ATOM	4304 4305	CG			539	23.428	57.812 58.682	79.262 78.279	1.00 26.37 1.00 25.71
			LEU			24.269 23.369		77.290	1.00 25.71
ATOM ATOM	4306 4307		LEU			25.146	59.424 59.680	79.011	1.00 21.79
	4308	N N			540	23.140	54.960	81.188	1.00 23.31
ATOM ATOM	4309	CA			540	22.390	54.283	82.170	1.00 27.38
ATOM	4310	C			540	23.145	54.229	83.453	1.00 20.88
ATOM	4311	0			540	23.143	54.448	84.539	1.00 31.32
ATOM	4312	СВ	ARG			22.034			1.00 32.72
ATOM	4313	CG			540	21.447	52.885	80.331	1.00 24.40
ATOM	4314	CD			540	20.695	51.597	80.090	1.00 32.38
ATOM	4315	NE			540	19.660	51.414	81.085	1.00 33.15
ATOM	4316	CZ			540	19.151	50.242	81.409	1.00 30.83
ATOM	4317		ARG			19.564	49.132	80.849	1.00 35.33
ATOM	4318		ARG			18.186	50.186	82.317	1.00 30.30
ATOM	4319	N			541	24.414	53.948	83.318	1.00 28.93
ATOM	4320	CA			541		53.895	84.505	1.00 26.36
ATOM	4321	C			541	25.239	55.210	85.277	1.00 20.30
ATOM	4322	0			541	24.632	55.216	86.439	1.00 31.62
ATOM	4323	СВ			541	26.702	53.586	84.094	1.00 31.62
ATOM	4324	CG			541	27.730	53.533	85.212	1.00 24.67
ATOM	4325		LEU				52.411	86.190	1.00 25.02
ATOM	4325		LEU			29.098	53.245	84.621	1.00 25.02
ATOM	4327	N N			542	25.254	56.307	84.570	1.00 30.52
ATOM	4328	CA			542	25.254	57.661	85.105	1.00 30.32
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MOTA	4329	С	CYS			23.808	57.996	85.805	1.00 32.7	
ATOM	4330	0	CYS			23.801	58.536	86.914	1.00 33.9	
MOTA	4331	CB	CYS	A	542	25.461	58.744	84.073	1.00 31.3	30
ATOM	4332	SG	CYS	A	542	27.085	58.488	83.347	1.00 34.3	39
ATOM	4333	N	ILE	Α	543	22.711	57.708	85.125	1.00 25.6	51
MOTA	4334	CA	ILE	A	543	21.382	57.982	85.643	1.00 23.3	12
ATOM	4335	C	ILE			21.199	57.161	86.885	1.00 30.3	15
MOTA	4336	ō	ILE			20.900	57.645	87.972	1.00 30.	
								84.585	1.00 23.	
MOTA	4337	CB	ILE			20.340	57.627			
MOTA	4338	CG1				20.369	58.664	83.468	1.00 24.0	
MOTA	4339	CG2	ILE			18.955	57.572	85.182	1.00 22.9	
MOTA	4340	CD1	ILE	A	543	20.386	60.109	83.982	1.00 27.3	3 <b>4</b>
ATOM	4341	N	GLN	A	544	21.440	55.884	86.695	1.00 27.9	99
MOTA	4342	CA	GLN	A	544	21.320	54.929	87.756	1.00 25.	72
MOTA	4343	C	GLN	A	544	22.243	55.269	88.901	1.00 26.3	3 <b>4</b>
ATOM	4344	0	GLN	A	544	22.029	54.826	90.014	1.00 26.2	24
ATOM	4345	CB	GLN			21.562	53.512	87.210	1.00 26.	
	4346	CG	GLN			20.355	52.955	86.432	1.00 17.	
MOTA								85.743	1.00 32.0	
MOTA	4347	CD	GLN			20.598	51.604			
ATOM	4348	OE1	GLN			20.326	51.432	84.551	1.00 38.0	
MOTA	4349	NE2				21.063	50.627	86.494	1.00 14.	-
ATOM	4350	N	SER	A	545	23.286	56.033	88.625	1.00 21.	73
ATOM	4351	CA	SER	A	545	24.187	56.392	89.685	1.00 22.4	42
ATOM	4352	C	SER	A	545	23.819	57.726	90.287	1.00 33.0	67
ATOM	4353	0	SER	Α	545	24.567	58.257	91.133	1.00 37.3	22
ATOM	4354	CB	SER	A	545	25.646	56.322	89.338	1.00 21.5	57
ATOM	4355	OG	SER	A	545	25.980	54.968	89.163	1.00 31.	72
ATOM	4356	N	LYS			22.662	58.251	89.841	1.00 23.	
ATOM	4357	CA	LYS			22.135	59.490	90.356	1.00 20.	
	4358	C	LYS			22.887	60.738	89.961	1.00 27.	
MOTA								90.771	1.00 27.	
MOTA	4359	0	LYS			23.001	61.655			
MOTA	4360	СВ	LYS			22.126	59.449	91.881	1.00 21.	
ATOM	4361	CG	LYS			21.498	58.195	92.484	1.00 15.	
ATOM	4362	CD	LYS	A	546	20.245	57.814	91.731	1.00 39.	
ATOM	4363	CE	LYS	A	546	19.355	56.850	92.498	1.00 45.	16
ATOM	4364	NZ	LYS	A	546	18.197	56.399	91.704	1.00 40.	14
ATOM	4365	N	TRP	A	547	23.414	60.776	88.753	1.00 23.	26
MOTA	4366	CA	TRP	A	547	24.141	61.931	88.289	1.00 21.	90
ATOM	4367	C	TRP	A	547	23.221	62.901	87.570	1.00 29.	82
ATOM	4368	0	TRP	Α	547	22.808	62.679	86.432	1.00 34.	91
ATOM	4369	CB	TRP			25.262	61.500	87.361	1.00 21.	04
ATOM	4370	CG	TRP			26.254	62.591	87.206	1.00 22.	
								87.844	1.00 25.	
ATOM	4371		TRP			26.224 27.437	63.769 62.588	86.417	1.00 23.	
ATOM	4372	-								
MOTA	4373		TRP			27.316	64.511	87.517	1.00 25.	
ATOM	4374		TRP			28.081	63.819	86.635	1.00 27.	
ATOM	4375		TRP			28.014	61.668	85.547	1.00 26.	
MOTA	4376	CZ2	TRP	A	547	29.279	64.162	85.995	1.00 27.	44
MOTA	4377	CZ3	TRP	Α	547	29.195	62.009	84.923	1.00 28.	70
MOTA	4378	CH2	TRP	Α	547	29.822	63.236	85.138	1.00 28.	41
MOTA	4379	N	GLU	A	548	22.888	63.995	88.227	1.00 22.	95
ATOM	4380	CA	GLU			21.979	64.970	87.649	1.00 20.	70
ATOM	4381	C	GLU			22.419	65.473	86.305	1.00 28.	
ATOM	4382	ō	GLU			21.598	65.735	85.391	1.00 29.	
MOTA	4383	CB	GLU			21.635	66.144	88.607	1.00 22.	
								89.919	1.00 30.	
ATOM	4384	CG	GLU			20.884	65.709			
MOTA	4385	CD	GLU			20.337	66.848	90.765	1.00 59.	
MOTA	4386	OE1	GLU	A	548	20.336	68.021	90.413	1.00 81.	52

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ATOM	4387		GLU A			19.888	66.450	91.925	1.00 57.05
ATOM	4388	N	ASP Z			23.728	65.661	86.201	1.00 24.72
ATOM	4389	CA	ASP A			24.276	66.190	84.981	1.00 21.48
MOTA	4390	C	ASP A	A.	549	23.914	65.359	83.795	1.00 30.08
ATOM	4391	0	ASP A	A	549	23.760	65.869	82.697	1.00 32.05
MOTA	4392	CB	ASP I	A	549	25.775	66.480	85.048	1.00 21.28
ATOM	4393	CG	ASP Z	A	549	26.076	67.463	86.130	1.00 37.74
ATOM	4394	OD1	ASP A	A	549	25.432	68.479	86.297	1.00 48.21
ATOM	4395	OD2	ASP Z	A	549	27.076	67.115	86.882	1.00 46.51
ATOM	4396	N	ÀLA Z			23.766	64.073	84.032	1.00 27.68
MOTA	4397	CA	ALA A			23.445	63.133	82.965	1.00 26.74
ATOM	4398	C	ALA I				63.171	82.431	
			ALA A			22.019			1.00 32.35
ATOM	4399	0				21.745	62.615	81.361	1.00 31.95
ATOM	4400	СВ	ALA			23.812	61.713	83.372	1.00 25.48
ATOM	4401	N	ILE A			21.123	63.795	83.192	1.00 28.71
MOTA	4402	CA	ILE 2			19.716	63.882	82.832	1.00 28.20
ATOM	4403	C	ILE 2	A	551	19.461	64.355	81.411	1.00 32.04
MOTA	4404	0	ILE :	A	551	18.833	63.679	80.619	1.00 31.75
MOTA	4405	CB	ILE 2	A.	551	18.876	64.641	83.868	1.00 30.29
MOTA	4406	CG1	ILE A	A	551	19.038	63.985	85.226	1.00 31.50
ATOM	4407	CG2	ILE 2	A.	551	17.391	64.661	83.475	1.00 24.75
ATOM	4408	CD1	ILE A			18.072	64.561	86.253	1.00 31.62
ATOM	4409	N	PRO I	A	552	19.969	65.529	81.099	1.00 33.75
ATOM	4410	CA	PRO I	A	552	19.793	66.121	79.796	1.00 32.60
ATOM	4411	C	PRO I			20.240	65.224	78.669	1.00 30.34
ATOM	4412	0	PRO I			19.583	65.119	77.622	1.00 27.23
ATOM	4413	CB	PRO I			20.659	67.383	79.787	1.00 34.45
ATOM	4414	CG	PRO I			21.348	67.500	81.139	1.00 38.39
		CD	PRO I			20.934	66.296	81.950	1.00 34.48
ATOM	4415								
ATOM	4416	N	LEU I			21.391	64.616	78.891	1.00 23.74
MOTA	4417	CA	LEU			21.997	63.727	77.931	1.00 22.72
ATOM	4418	C	LEU I			21.138	62.522	77.670	1.00 32.68
ATOM	4419	0	LEU Z			21.015	62.087	76.523	1.00 35.70
ATOM	4420	CB	LEU A			23.362	63.281	78.439	1.00 21.57
MOTA	4421	CG	LEU A			24.196	64.496	78.818	1.00 24.02
MOTA	4422	CD1	LEU Z	A	553	25.608	64.071	79.174	1.00 19.59
ATOM	4423	CD2	LEU Z			24.188	65.479	77.630	1.00 18.60
MOTA	4424	N	ALA	A	554	20.563	61.973	78.754	1.00 30.05
MOTA	4425	CA	ALA A	A	554	19.726	60.779	78.669	1.00 27.72
ATOM	4426	C	ALA I	A	554	18.432	61.107	77.988	1.00 36.03
ATOM	4427	0	ALA Z	A	554	17.944	60.332	77.163	1.00 37.08
MOTA	4428	CB	ALA Z	A	554	19.475	60.165	80.017	1.00 26.78
ATOM	4429	N	LEU I			17.898	62.283	78.320	1.00 29.70
MOTA	4430	CA	LEU I	A	555	16.644		77.720	1.00 28.32
ATOM	4431	C	LEU			16.803	62.902	76.229	1.00 29.19
MOTA	4432	ō	LEU			15.970	62.506	75.385	1.00 26.13
ATOM	4433	СВ	LEU 2			16.110	64.027	78.342	1.00 28.26
MOTA	4434	CG	LEU A			15.371	63.814	79.666	1.00 32.76
ATOM	4435		LEU A			15.360	65.118	80.464	1.00 34.66
MOTA	4436		LEU I			13.938	63.334	79.427	1.00 27.50
ATOM	4437	N	LYS			17.922	63.524	75.950	1.00 28.45
ATOM	4438	CA.	LYS			18.325	63.839	74.615	1.00 28.76
ATOM	4439	C	LYS			18.369	62.591	73.800	1.00 35.11
ATOM	4440	0	LYS			17.670	62.491	72.796	1.00 41.80
MOTA	4441	CB	LYS A			19.645	64.592	74.599	1.00 31.79
MOTA	4442	CG	LYS A	A	556	20.101	65.139	73.250	1.00 63.55
MOTA	4443	CD	LYS A	A	556	21.585	65.518	73.254	1.00 81.77
MOTA	4444	CE	LYS 2	A	556	22.046	66.270	72.011	1.00 79.68

ATOM	4445	NZ		A 556	23.239	65.661	71.401	1.00 73.00
MOTA	4446	N	MET A	A 557	19.154	61.623	74.248	1.00 26.96
MOTA	4447	CA	MET .	A 557	19.305	60.364	73.514	1.00 23.97
MOTA	4448	С	MET :	A 557	18.033	59.553	73.287	1.00 30.96
ATOM	4449	0	MET I	A 557	17.811	58.907	72.263	1.00 23.24
MOTA	4450	CB	MET 2	A 557	20.401	59.488	74.104	1.00 24.89
ATOM	4451	CG	MET :	A 557	20.533	58.163	73.368	1.00 29.37
ATOM	4452	SD	MET .	A 557	22.029	57.276	73.864	1.00 33.21
MOTA	4453	CE	MET	A 557	21.939	55.812	72.793	1.00 30.16
ATOM	4454	N		A 558	17.203	59.568	74.287	1.00 33.42
ATOM	4455	CA		A 558	16.000	58.816	74.194	1.00 33.03
ATOM	4456	C		A 558	15.042	59.345	73.163	1.00 38.12
		0		A 558	14.349	58.568	72.543	1.00 37.09
ATOM	4457			A 558		58.780	75.553	1.00 37.09
MOTA	4458	СВ			15.317			
MOTA	4459	N		A 559	14.994	60.665	73.032	1.00 36.76
ATOM	4460	CA		A 559	14.067	61.326	72.144	1.00 36.43
MOTA	4461	С		A 559	14.588	61.590	70.794	1.00 41.71
MOTA	4462	0		A 559	13.788	61.768	69.891	1.00 44.66
MOTA	4463	CB	THR .	A 559	13.615	62.705	72.694	1.00 43.70
ATOM	4464	OG1	THR .	A 559	14.728	63.545	72.957	1.00 38.88
ATOM	4465	CG2	THR	A 559	12.764	62.549	73.942	1.00 44.95
MOTA	4466	N	GLU 2	A 560	15.897	61.695	70.674	1.00 37.38
MOTA	4467	CA	GLU 2	A 560	16.495	62.018	69.395	1.00 36.51
ATOM	4468	C	GLU I	A 560	16.652	60.846	68.448	1.00 40.11
MOTA	4469	0	GLU 2	A 560	17.003	61.052	67.300	1.00 43.23
ATOM	4470	CB	GLU I	A 560	17.799	62.820	69.519	1.00 38.13
ATOM	4471	CG	GLU 2	A 560	17.653	64.142	70.292	1.00 54.29
MOTA	4472	CD	GLU :	A 560	18.857	65.043	70.127	1.00 78.42
ATOM	4473		GLU		19.960	64.639	69.812	1.00 32.69
MOTA	4474	OE2	GLU :	A 560	18.593	66.303	70.380	1.00 85.90
ATOM	4475	N		A 561	16.425	59.627	68.955	1.00 30.45
ATOM	4476	CA		A 561	16.467	58.356	68.230	1.00 22.57
ATOM	4477	C		A 561	15.398	57.523	68.878	1.00 26.95
ATOM	4478	ō		A 561	14.978	57.814	69.975	1.00 27.79
ATOM	4479	СВ		A 561	17.829	57.661	68.128	1.00 20.64
MOTA	4480	CG		A 561	18.470	57.290	69.491	1.00 22.59
ATOM	4481	CD		A 561	17.802	56.121	70.184	1.00 28.22
ATOM	4482	OE1		A 561	17.524	56.156	71.400	1.00 37.44
	4483	NE2		A 561	17.556	55.069	69.419	1.00 31.92
ATOM ATOM		N		A 562	14.888	56.535	68.209	1.00 26.16
	4484	CA		A 562	13.801	55.810	68.858	1.00 27.83
ATOM	4485	CA			13.932	54.320	68.761	1.00 27.05
MOTA	4486			A 562			68.677	1.00 45.37
MOTA	4487	0		A 562	12.936	53.614 53.864		1.00 43.37
ATOM	4488	N		A 563	15.171		68.742	
ATOM	4489	CA		A 563	15.457	52.453	68.689	1.00 34.41
ATOM	4490	C		A 563	15.121	51.939	70.109	1.00 39.48
MOTA	4491	0		A 563	15.832	52.221	71.087	1.00 40.29
MOTA	4492	CB		A 563	16.932	52.231	68.284	1.00 18.23
MOTA	4493	CG		A 563	17.309	50.755	68.169	1.00 20.07
ATOM	4494	CD		A 563	18.779	50.514	68.512	1.00 25.07
MOTA	4495	NE		A 563	19.234	49.139	68.320	1.00 25.66
MOTA	4496	CZ		A 563	20.425	48.891	67.821	1.00 26.35
ATOM	4497		ARG A	A 563	21.257	49.860	67.430	1.00 12.96
ATOM	4498	NH2	ARG .	A 563	20.804	47.636	67.656	1.00 30.31
ATOM	4499	N	MET 2	A 564	13.989	51.228	70.239	1.00 33.12
MOTA	4500	CA	MET .	A 564	13.487	50.695	71.526	1.00 31.84
ATOM	4501	C	MET .	A 564	14.565	50.247	72.532	1.00 31.42
ATOM	4502	0	MET .	A 564	14.494	50.501	73.744	1.00 25.72

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ATOM	4503	CB	MET	A	564	12.323	49.682	71.365	1.00	32.45
MOTA	4504	CG	MET	Α	564	11.196	50.225	70.487	1.00	35.78
MOTA	4505	SD	MET	Δ	564	9.695	49.205	70.533	1 00	40.85
	4506					10.177				
MOTA		CE			564		47.892	69.382		35.87
MOTA	4507	N	PAR	Α	565	15.562	49.581	71.966	1.00	31.68
ATOM	4508	CA	LYS	Α	565	16.699	49.041	72.668	1.00	29.04
MOTA	4509	С	LYS	Α	565	17.281	50.089	73.562	1.00	26.36
MOTA	4510	0			565	17.648	49.782	74.673		21.19
ATOM	4511	CB			565	17.747	48.494	71.697		29.06
ATOM	4512	CG	LYS	A	565	18.864	47.715	72.359	1.00	23.89
MOTA	4513	CD	LYS	Α	565	19.982	47.355	71.392	1.00	35.75
MOTA	4514	CE	LYS	Α	565	20.796	46.153	71.842	1.00	36.31
ATOM	4515	NZ	LYS	A	565	22.233	46.311	71.577		44.91
ATOM	4516	N			566	17.321	51.321	73.073		22.91
MOTA	4517	CA			566	17.866	52.423	73.833		24.36
MOTA	4518	C	PHE	A	566	16.814	53.253	74.571	1.00	30.37
MOTA	4519	0	PHE	А	566	16.882	53.540	75.758	1.00	30.52
MOTA	4520	CB	PHE	Α	566	18.622	53.355	72.857	1.00	25.26
MOTA	4521	CG			566	19.738	52.677	72.088	1.00	24.09
ATOM	4522		PHE			20.392	51.559	72.609		23.51
MOTA	4523		PHE			20.165	53.187	70.858		24.48
ATOM	4524	CE1	PHE	Α	566	21.432	50.958	71.900	1.00	23.73
MOTA	4525	CE2	PHE	Α	566	21.211	52.620	70.129	1.00	24.75
MOTA	4526	$\mathbf{cz}$	PHE	Α	566	21.828	51.491	70.668	1.00	25.20
ATOM	4527	N	THR	Α	567	15.860	53.679	73.801	1.00	31.17
ATOM	4528	CA	THR	Δ	567	14.783	54.533	74.239		31.74
ATOM	4529	C	THR			13.985	54.037	75.458		33.79
		0								
ATOM	4530		THR			13.657	54.818	76.373		26.01
ATOM	4531	CB	THR			13.895	54.892	73.017		36.51
ATOM	4532		THR			14.527	55.844	72.138		24.12
MOTA	4533	CG2	THR			12.522	55.361	73.473	1.00	34.94
ATOM	4534	N	ARG	Α	568	13.663	52.726	75.469	1.00	30.74
ATOM	4535	CA	ARG	Α	568	12.864	52.166	76.545	1.00	26.30
MOTA	4536	C	ARG	Α	568	13.486	52.226	77.882	1.00	28.61
ATOM	4537	0	ARG			12.876	52.667	78.832	1.00	30.84
ATOM	4538	СВ	ARG			12.315	50.798	76.251		18.11
MOTA	4539	CG	ARG					75.088		
						11.342	50.919			29.19
MOTA	4540	CD	ARG			10.550	49.660	74.799		19.19
ATOM	4541	NE	ARG			9.707	49.343	75.917		28.72
MOTA	4542	CZ	ARG	A	568	9.254	48.138	76.133		32.39
ATOM	4543	NH1	ARG	A	568	9.528	47.144	75.291	1.00	29.79
ATOM	4544	NH2	ARG	Α	568	8.507	47.930	77.208	1.00	16.44
ATOM	4545	N	PRO	Α	569	14.705	51.774	77.925	1.00	28.41
ATOM	4546	CA	PRO	Α	569	15.447	51.709	79.154	1.00	28.01
ATOM	4547	С	PRO			15.890	53.042	79.663		32.18
ATOM	4548	0	PRO			15.974	53.256	80.869		29.25
ATOM	4549	CB	PRO			16.607	50.732	78.919		28.83
ATOM	4550	CG	PRO	A	569	16.330	50.034	77.592		32.42
ATOM	4551	CD	PRO	Α	569	15.234	50.829	76.893	1.00	29.82
MOTA	4552	N	TEA	A	570	16.143	53.949	78.741	1.00	31.95
MOTA	4553	CA	LEU	Α	570	16.560	55.270	79.160	1.00	35.11
ATOM	4554	С	LEU			15.407	55.962	79.897		36.24
ATOM	4555	0	LEU			15.532	56.506	81.028		34.02
ATOM	4556	CB	LEU			17.021	56.110	77.932		37.06
ATOM	4557	CG	LEU			18.387	55.701	77.343		41.39
MOTA	4558		LEU			18.678	56.462	76.050		41.06
ATOM	4559	CD2	LEU				55.984	78.353		37.42
MOTA	4560	N	PHE	A	571	14.262	55.944	79.211	1.00	30.06

ATOM	4561	CA	PHR	Δ	571	13.084	56.541	79.758	1.00 27.27
ATOM	4562	C			571	12.813	55.899	81.095	1.00 25.94
ATOM	4563	0			571	12.399		82.030	
							56.536		1.00 27.16
ATOM	4564	CB			571	11.888	56.375	78.828	1.00 27.60
ATOM	4565	CG			571	11.546	57.616	78.042	1.00 27.70
ATOM	4566		PHE			11.193	58.820	78.651	1.00 29.97
MOTA	4567	CD2	PHE	A	571	11.557	57.570	76.651	1.00 28.87
MOTA	4568	CE1	PHE	Α	571	10.861	59.953	77.910	1.00 28.24
MOTA	4569	CE2	PHE	A	571	11.233	58.684	75.886	1.00 30.43
MOTA	4570	CZ	PHE	A	571	10.877	59.875	76.520	1.00 29.55
MOTA	4571	N	LYS	A	572	13.089	54.618	81.196	1.00 22.77
MOTA	4572	CA	LYS	A	572	12.845	53.946	82.468	1.00 25.43
ATOM	4573	С	LYS	A	572	13.783	54.425	83.561	1.00 34.48
MOTA	4574	0	LYS	A	572	13.351	54.920	84.602	1.00 35.11
ATOM	4575	CB			572	12.736	52.428	82.392	1.00 26.89
ATOM	4576	CG			572	11.303	51.911	82.326	1.00 44.03
MOTA	4577	CD			572	11.219	50.426	81.922	1.00 57.87
					572		50.204	80.422	1.00 57.87
MOTA	4578	CE				10.975			
MOTA	4579	NZ			572	11.535	48.954	79.850	1.00 61.06
MOTA	4580	N			573	15.074	54.292	83.319	1.00 31.94
ATOM	4581	CA			573	16.032	54.751	84.291	1.00 30.55
MOTA	4582	С			573	15.684	56.166	84.712	1.00 32.26
MOTA	4583	0	ASP	Α	573	15.693	56.453	85.895	1.00 31.85
ATOM	4584	CB	ASP	A	573	17.453	54.788	83.718	1.00 32.87
ATOM	4585	CG	ASP	A	573	18.051	53.443	83.487	1.00 33.43
ATOM	4586	OD1	ASP	Α	573	17.517	52.422	83.853	1.00 29.11
MOTA	4587	OD2	ASP	A	573	19.206	53.501	82.864	1.00 35.22
ATOM	4588	N	LEU	Α	574	15.387	57.071	83.745	1.00 29.50
ATOM	4589	CA	LEU	Α	574	15.062	58.461	84.109	1.00 27.65
MOTA	4590	С	LEU	Α	574	13.887	58.577	85.075	1.00 32.88
MOTA	4591	0	LEU	A	574	13.864	59.411	85.962	1.00 31.04
ATOM	4592	CB			574	14.844	59.385	82.909	1.00 26.24
MOTA	4593	CG			574	16.068	59.567	82.027	1.00 30.41
АТОМ	4594		LEU			15.644	59.922	80.582	1.00 28.47
ATOM	4595		LEU			16.974	60.659	82.604	1.00 27.06
ATOM	4596	N			575	12.895	57.723	84.874	1.00 32.80
ATOM	4597	CA			575	11.709	57.713	85.711	1.00 31.11
ATOM	4598	C			575	12.002	57.140	87.083	1.00 35.71
	4599	0				11.309	57.362	88.055	1.00 33.71
ATOM					575 575				
ATOM	4600	CB				10.631	56.890	85.024	1.00 30.56
ATOM	4601	N			576	13.049	56.364	87.170	1.00 28.55
MOTA	4602	CA			576	13.390	55.778	88.448	1.00 22.80
MOTA	4603	C	ALA			14.258	56.724	89.266	1.00 26.93
MOTA	4604	0			576	14.444	56.591	90.461	1.00 30.45
MOTA	4605	CB			576.	14.023	54.415	88.245	1.00 20.31
MOTA	4606	N			577	14.787	57.686	88.584	1.00 22.86
ATOM	4607	CA			577	15.604	58.673	89.194	1.00 22.71
MOTA	4608	C	PHE	Α	577	14.651	59.751	89.673	1.00 32.25
MOTA	4609	0	PHE	Α	577	13.930	60.334	88.863	1.00 34.17
MOTA	4610	CB	PHE	A	577	16.640	59.188	88.154	1.00 22.89
ATOM	4611	CG	PHE	A	577	17.704	60.076	88.741	1.00 23.16
ATOM	4612		PHE	А	577	17.847	60.231	90.120	1.00 26.60
MOTA	4613		PHE			18.561	60.806	87.914	1.00 23.46
ATOM	4614		PHE			18.818	61.082	90.661	1.00 27.55
ATOM	4615		PHE			19.543	61.657	88.431	1.00 23.88
ATOM								· · - <del>-</del>	
					577	19,669	61.791	89.813	1.00 23.59
	4616	CZ	PHE	A		19.669 14.625	61.791 60.008	89.813	1.00 23.59
ATOM ATOM				A A	578	19.669 14.625 13.717	61.791 60.008 61.018	89.813 90.990 91.533	1.00 23.59 1.00 29.70 1.00 28.65

ATOM	4619	С	ASP :	Δ	578	13.862	62.357	90.881	1.00 28.55
ATOM	4620	ō	ASP :			12.877	63.004	90.599	1.00 32.65
ATOM	4621	СВ	ASP			13.804	61.192	93.055	1.00 32.60
ATOM	4622	CG	ASP .						
						15.153	61.647	93.550	1.00 53.21
ATOM	4623		ASP .			16.175	61.594	92.872	1.00 51.81
MOTA	4624	OD2	ASP .			15.104	62.072	94.796	1.00 64.93
MOTA	4625	N	LYS .			15.104	62.750	90.674	1.00 20.12
ATOM	4626	CA	LYS .	A	579	15.470	64.012	90.084	1.00 21.01
MOTA	4627	С	LYS .	A	579	14.934	64.270	88.697	1.00 30.25
MOTA	4628	0	LYS .	A	579	14.620	65.413	88.368	1.00 35.12
MOTA	4629	CB	LYS .	A	579	16.982	64.223	90.104	1.00 24.11
ATOM	4630	CG	LYS	A	579	17.552	64.202	91.512	1.00 48.98
ATOM	4631	CD	LYS			17.252	65.488	92.286	1.00 76.92
ATOM	4632	CE	LYS			16.495	65.258	93.588	1.00 87.93
MOTA	4633	NZ	LYS			17.282	64.550	94.611	1.00 89.56
ATOM	4634	N	SER			14.838	63.244	87.857	1.00 28.66
ATOM	4635	CA	SER .			14.368	63.437	86.459	1.00 28.56
ATOM	4636	C	SER .			13.007	62.829	86.129	1.00 32.95
ATOM	4637	0	SER .			12.561	62.870	84.992	1.00 35.30
ATOM	4638	CB	SER .	A	580	15.337	62.774	85.517	1.00 25.69
MOTA	4639	OG	SER .	A	580	15.476	61.424	85.969	1.00 25.12
ATOM	4640	N	HIS .	A	581	12.364	62.230	87.098	1.00 26.81
MOTA	4641	CA	HIS .	A	581	11.100	61.595	86.850	1.00 28.26
ATOM	4642	C	HIS .	A	581	10.067	62.399	86.042	1.00 36.50
ATOM	4643	0	HIS .	A	581	9.644	62.031	84.927	1.00 34.71
ATOM	4644	CB	HIS .	A	581	10.553	61.047	88.152	1.00 29.76
MOTA	4645	CG	HIS .	A	581	9.148	60.588	87.968	1.00 35.31
ATOM	4646		HIS .			8.111	61.494	87.899	1.00 38.92
ATOM	4647		HIS			8.634	59.338	87.891	1.00 36.84
ATOM	4648		HIS .			6.999	60.783	87.817	1.00 38.85
ATOM	4649		HIS			7.280	59.488	87.734	1.00 38.13
ATOM	4650	N	ASP .			9.656	63.502	86.639	1.00 35.79
ATOM		CA	ASP .			8.680	64.388	86.064	1.00 34.39
	4651								
ATOM	4652	C	ASP .			9.035	64.807	84.659	1.00 37.82
ATOM	4653	0	ASP .			8.220	64.704	83.735	1.00 37.01
ATOM	4654	CB	ASP .			8.428	65.552	87.001	1.00 36.57
ATOM	4655	CG	ASP :			7.597	65.110	88.167	1.00 58.09
ATOM	4656		ASP			6.708	64.289	88.070	1.00 63.17
MOTA	4657		ASP .			7.920	65.708	89.279	1.00 73.96
MOTA	4658	N	GLN .	A	583	10.272	65.255	84.488	1.00 32.88
MOTA	4659	CA.	GLN .	A	583	10.750	65.648	83.169	1.00 29.92
MOTA	4660	C	GLN .	A	583	10.690	64.464	82.168	1.00 37.12
MOTA	4661	0	GLN .	A	583	10.362	64.624	80.990	1.00 37.42
MOTA	4662	CB	GLN :	Α	583	12.172	66.182	83.287	1.00 28.54
MOTA	4663	CG	GLN .	A	583	12.704	66.648	81.929	1.00 48.12
MOTA	4664	CD	GLN .	A	583	13.957	67.475	82.081	1.00 64.09
MOTA	4665	OE1	GLN .	A	583	14.736	67.248	83.015	1.00 59.43
ATOM	4666		GLN .			14.130	68.461	81.201	1.00 55.34
ATOM	4667	N	ALA .	A	584	11.009	63.250	82.638	1.00 33.22
ATOM	4668	CA	ALA .			10.964	62.062	81.780	1.00 32.22
MOTA	4669	C	ALA .			9.557	61.841	81.315	1.00 37.45
ATOM	4670	0	ALA .			9.319	61.526	80.152	1.00 37.45
MOTA	4671	CB	ALA .			11.389	60.793	82.504	1.00 40.03
			VAL .					82.261	
ATOM	4672	N				8.622	61.995		1.00 30.42
ATOM	4673	CA	VAL .			7.217	61.806	81.946	1.00 29.16
ATOM	4674	C	VAL .			6.647	62.909	81.024	1.00 36.53
MOTA	4675	0	VAL			5.933	62.690	80.052	1.00 36.22
MOTA	4676	CB	VAL .	A	5 <b>85</b>	6.408	61.567	83.209	1.00 29.78

ATOM	4677	CG1	VAL	A	585	4.959	61.947	82.955	1.00 30.03
ATOM	4678		VAL			6.464	60.085	83.539	1.00 27.82
ATOM	4679	N			586	7.000	64.123	81.333	1.00 35.76
ATOM	4680	CA			586	6.574	65.242	80.562	1.00 36.20
ATOM	4681	С			586	7.146	65.125	79.180	1.00 44.65
ATOM	4682	ō			586	6.459	65.355	78.197	1.00 48.32
ATOM	4683	СВ			586	7.116	66.498	81.208	1.00 38.13
MOTA	4684	CG			586	6.744	67.799	80.518	1.00 61.01
ATOM	4685	CD			586	7.077	69.029	81.354	1.00 73.03
ATOM	4686	NE			586	8.491	69.128	81.711	1.00 86.05
MOTA	4687	CZ			586	8.961	69.001	82.957	1.00 98.46
ATOM	4688	NH1			586	8.167	68.741	84.004	1.00 79.75
	4689	NH2			586	10.268	69.103	83.159	1.00 77.55
ATOM									
ATOM	4690	N			587	8.426	64.769	79.110	1.00 39.49
ATOM	4691	CA			587	9.099	64.646	77.822	1.00 36.80
ATOM	4692	C			587	8.387	63.690	76.869	1.00 37.11
ATOM	4693	0			587	8.229	63.931	75.678	1.00 36.91
MOTA	4694	CB			587	10.634	64.384	77.917	1.00 39.40
ATOM	4695	OG1			587	11.303	65.334	78.717	1.00 46.27
ATOM	4696	CG2	THR			11.233	64.460	76.529	1.00 32.60
ATOM	4697	N			588	7.934	62.587	77.393	1.00 33.33
ATOM	4698	CA	TYR			7.252	61.639	76.555	1.00 33.94
ATOM	4699	C	TYR			5.890	62.146	76.090	1.00 37.02
ATOM	4700	0	TYR			5.428	61.880	74.988	1.00 41.55
MOTA	4701	CB			588	7.042	60.383	77.396	1.00 33.96
ATOM	4702	ÇG	TYR			6.017	59.440	76.851	1.00 33.08
MOTA	4703	CD1				6.331	58.640	75.754	1.00 35.64
MOTA	4704	CD2	TYR			4.758	59.288	77.437	1.00 34.09
MOTA	4705		TYR			5.424	57.703	75.251	1.00 34.36
MOTA	4706	CE2	TYR			3.822	58.378	76.932	1.00 34.05
MOTA	4707	CZ	TYR			4.162	57.581	75.834	1.00 33.89
ATOM	4708	OH	TYR			3.275	56.674	75.322	1.00 23.43
MOTA	4709	N			589	5.216	62.853	76.959	1.00 25.04
ATOM	4710	CA	GLN			3.914	63.339	76.612	1.00 21.41
MOTA	4711	C	GLN			3.992	64.304	75.481	1.00 28.78
MOTA	4712	0	GLN			3.099	64.410	74.678	1.00 31.24
MOTA	4713	CB	GLN			3.241	63.935	77.832	1.00 21.73
MOTA	4714	CG	GLN			2.878	62.820	78.827	1.00 22.30
ATOM	4715	CD	GLN			1.695	62.069	78.293	1.00 52.83
ATOM	4716	OE1				1.511	62.003	77.075	1.00 60.15
ATOM	4717	NE2	GLN			0.864	61.542	79.182	1.00 53.04
ATOM	4718	N	GLU			5.099	65.001	75.409	1.00 28.36
MOTA	4719	CA	GLU			5.276	65.966	74.355	1.00 26.87
MOTA	4720	C	GLU			5.840	65.338	73.140	1.00 35.10
ATOM	4721	0	GLU			6.096	66.059	72.171	1.00 40.28
ATOM	4722	СВ	GLU			6.323	67.011	74.747	1.00 27.61
MOTA	4723	CG	GLU			5.846	67.954	75.847	1.00 44.11
MOTA	4724	CD	GLU			6.981	68.759	76.388	1.00 75.35
MOTA	4725		GLU			8.120	68.689	75.925	1.00 54.78
MOTA	4726		GLU			6.609	69.516	77.403	1.00 59.46
MOTA	4727	N	HIS			6.091	64.031	73.207	1.00 27.57
MOTA	4728	CA	HIS			6.713	63.384	72.086	1.00 25.58
ATOM	4729	C	HIS			5.928	62.249	71.578	1.00 32.34
ATOM	4730	0	HIS			6.184	61.751	70.496	1.00 38.53
MOTA	4731	СВ	HIS			8.094	62.851	72.487	1.00 26.32
ATOM	4732	CG	HIS			9.219	63.809	72.268	1.00 31.06
MOTA	4733		HIS			9.630	64.680	73.255	1.00 32.65
MOTA	4734	CD2	HIS	A	591	9.998	64.032	71.169	1.00 34.91

ATOM	4735			A 591	10.635	65.404	72.756	1.00 32.01
ATOM	4736	NE2	HIS	A 591	10.884	65.037	71.508	1.00 33.36
MOTA	4737	N	LYS	A 592	4.978	61.812	72.337	1.00 28.34
MOTA	4738	CA	LYS	A 592	4.254	60.643	71.849	1.00 29.96
ATOM	4739	C	LYS .	A 592	3.654	60.692	70.432	1.00 33.41
MOTA	4740	0	LYS .	A 592	3.819	59.769	69.592	1.00 29.05
MOTA	4741	CB	LYS	A 592	3.362	59.983	72.888	1.00 32.83
MOTA	4742	CG	LYS	A 592	2.435	60.930	73.615	1.00 31.14
MOTA	4743	CD	LYS	A 592	1.677	60.203	74.704	1.00 38.97
ATOM	4744	CE	LYS	A 592	0.253	60.691	74.890	1.00 25.02
ATOM	4745	NZ	LYS	A 592	-0.157	60.632	76.302	1.00 45.83
MOTA	4746	N	ALA	A 593	2.934	61.782	70.187	1.00 30.97
ATOM	4747	CA	ALA	A 593	2.260	62.026	68.917	1.00 28.47
MOTA	4748	C	ALA	A 593	3.169	61.943	67.703	1.00 32.66
MOTA	4749	0	ALA	A 593	2.775	61.488	66.639	1.00 36.77
MOTA	4750	CB	ALA	A 593	1.571	63.379	68.954	1.00 27.35
ATOM	4751	N	SER	A 594	4.384	62.405	67.869	1.00 27.08
ATOM	4752	CA	SER	A 594	5.345	62.417	66.794	1.00 30.04
MOTA	4753	С	SER	A 594	6.185	61.169	66.760	1.00 36.80
ATOM	4754	0	SER	A 594	6.995	60.991	65.848	1.00 37.94
ATOM	4755	СВ	SER	A 594	6.292	63.596	66.977	1.00 37.69
ATOM	4756	OG	SER	A 594	7.199	63.340	68.043	1.00 54.55
MOTA	4757	N	MET	A 595	6.015	60.340	67.776	1.00 33.12
ATOM	4758	CA	MET	A 595	6.794	59.115	67.898	1.00 33.96
MOTA	4759	С		A 595		57.936	67.125	1.00 40.91
ATOM	4760	0		A 595		57.927	66.809	1.00 50.82
ATOM	4761	CB	MET	A 595		58.686	69.382	1.00 34.22
MOTA	4762	CG		A 595		59.371	70.399	1.00 34.61
ATOM	4763	SD		A 595		58.440	71.962	1.00 39.24
MOTA	4764	CB	MET	A 595	7.145	59.779	73.084	1.00 36.72
ATOM	4765	N	HIS	A 596	6.987	56.897	66.886	1.00 26.19
ATOM	4766	CA	HIS	A 596	6.496	55.657	66.246	1.00 23.19
MOTA	4767	C	HIS	A 596	5.438	54.964	67.120	1.00 25.21
MOTA	4768	0	HIS	A 596	5.621	54.728	68.311	1.00 22.59
MOTA	4769	CB	HIS	A 596	7.657	54.655	66.077	1.00 24.41
MOTA	4770	CG	HIS	A 596	7.222	53.366	65.493	1.00 30.13
MOTA	4771	ND1	HIS	A 596	7.606	52.995	64.214	1.00 32.86
MOTA	4772	CD2	HIS	A 596	6.421	52.385	66.005	1.00 30.90
ATOM	4773	CE1	HIS	A 596	7.047	51.824	63.974	1.00 30.05
MOTA	4774	NE2	HIS	A 596	6.325	51.441	65.031	1.00 30.20
ATOM	4775	N	PRO	A 597	4.334	54.587	66.512	1.00 27.08
MOTA	4776	CA	PRO	A 597	3.217	53.912	67.173	1.00 26.35
ATOM	4777	C	PRO	A 597	3.513	52.851	68.248	1.00 37.51
ATOM	4778	0	PRO	A 597	2.979	52.900	69.348	1.00 41.16
MOTA	4779	CB	PRO	A 597	2.334	53.307	66.076	1.00 26.17
MOTA	4780	CG	PRO	A 597	3.140	53.426	64.792	1.00 34.56
MOTA	4781	CD	PRO	A 597	4.285	54.418	65.050	1.00 30.06
ATOM	4782	N	VAL	A 598	4.311	51.850	67.939	1.00 33.08
ATOM	4783	CA	VAL	A 598	4.585	50.802	68.911	1.00 28.39
MOTA	4784	С	VAL	A 598	5.444	51.307	70.029	1.00 29.32
MOTA	4785	0	VAL	A 598	5.168	51.096	71.217	1.00 29.13
MOTA	4786	CB		A 598		49.599	68.210	1.00 27.99
MOTA	4787			A 598		48.608	69.187	1.00 26.98
ATOM	4788			A 598		48.944	67.296	1.00 26.13
ATOM	4789	N		A 599		52.021	69.635	1.00 26.10
ATOM	4790	CA		A 599		52.573	70.631	1.00 26.95
ATOM	4791	C		A 599		53.404	71.669	1.00 30.81
MOTA	4792	0		A 599		53.327	72.871	1.00 31.33
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MOTA	4793	CB	THR	A	599	8.413	53.455	69.975	1.00 26.67
MOTA	4794	OG1	THR	A	599	9.092	52.725	68.958	1.00 27.92
ATOM	4795	CG2	THR	A	599	9.358	53.884	71.092	1.00 20.69
MOTA	4796	N	ALA	A	600	5.801	54.218	71.135	1.00 26.41
MOTA	4797	CA	ALA	A	600	4.997	55.111	71.878	1.00 26.39
MOTA	4798	C	ALA	Α	600	4.176	54.339	72.860	1.00 32.00
MOTA	4799	0	ALA	A	600	4.162	54.597	74.057	1.00 35.37
MOTA	4800	CB	ALA	Α	600	4.090	55.774	70.856	1.00 27.56
MOTA	4801	N	MET	A	601	3.470	53.380	72.332	1.00 26.26
MOTA	4802	CA	MET	A	601	2.627	52.585	73.167	1.00 26.60
MOTA	4803	C	MET	A	601	3.439	51.909	74.225	1.00 25.73
ATOM	4804	0	MET	A	601	3.099	51.964	75.381	1.00 25.77
MOTA	4805	CB	MET	Α	601	1.752	51.625	72.353	1.00 30.49
ATOM	4806	CG	MET	A	601	1.024	50.594	73.176	1.00 36.00
ATOM	4807	SD	MET	A	601	2.043	49.146	73.554	1.00 42.41
MOTA	4808	CE	MET	A	601	1.693	48.128	72.111	1.00 37.75
ATOM	4809	N	LEU	A	602	4.538	51.310	73.848	1.00 21.64
MOTA	4810	CA	LEU			5.339	50.671	74.873	1.00 22.59
ATOM	4811	С	LEU			6.010	51.650	75.870	1.00 29.61
ATOM	4812	o	LEU			6.137	51.346	77.039	1.00 27.62
ATOM	4813	СВ	LEU			6.418	49.760	74.294	1.00 22.14
ATOM	4814	CG	LEU			5.916	48.529	73.575	1.00 25.78
ATOM	4815		LEU			7.021	48.087	72.609	1.00 26.02
ATOM	4816	CD2	LEU			5.651	47.445	74.613	1.00 21.01
ATOM	4817	N	VAL			6.508	52.805	75.445	1.00 27.15
ATOM	4818	CA	VAL .			7.145	53.684	76.413	1.00 26.39
ATOM	4819	C	VAL .			6.121	54.157	77.438	1.00 32.60
ATOM	4820	0	VAL .			6.436	54.235	78.621	1.00 35.31
ATOM	4821	СВ	VAL :			7.917	54.832	75.760	1.00 27.78
ATOM	4822		VAL .			8.286	55.887	76.774	1.00 24.54
ATOM	4823	CG2	VAL			9.172	54.286	75.094	1.00 27.29
ATOM	4824	N	GLY .			4.878	54.434	76.976	1.00 27.44
ATOM	4825	CA	GLY :			3.759	54.856	77.819	1.00 27.58
ATOM	4826	C	GLY .			3.418	53.797	78.905	1.00 37.00
MOTA	4827	ō	GLY .			3.088	54.102	80.072	1.00 36.56
ATOM	4828	N	LYS .			3.511	52.522	78.520	1.00 32.54
ATOM	4829	CA	LYS			3.250	51.415	79.459	1.00 32.17
ATOM	4830	C	LYS			4.312	51.405	80.539	1.00 35.15
ATOM	4831	ō	LYS			4.040	51.347	81.734	1.00 33.77
ATOM	4832	CB	LYS			3.231	50.034	78.782	1.00 33.59
ATOM	4833	CG	LYS			1.837	49.438	78.576	1.00 42.45
ATOM	4834	CD	LYS			1.846	48.115	77.815	1.00 60.83
ATOM	4835	CE	LYS			1.223	46.946	78.578	1.00 86.38
ATOM	4836	NZ	LYS			2.188	46.179	79.385	1.00 93.05
ATOM	4837	N	ASP			5.544	51.470	80.056	1.00 32.91
ATOM	4838	CA	ASP A			6.715	51.510	80.878	1.00 31.82
ATOM	4839	C	ASP A			6.549	52.667	81.833	1.00 36.24
ATOM	4840	ō	ASP A			6.652	52.503	83.045	1.00 35.19
ATOM	4841	СВ	ASP I			7.983	51.702	80.027	1.00 32.52
MOTA	4842	CG	ASP :			8.302	50.525	79.134	1.00 40.01
MOTA	4843		ASP A			7.934	49.378	79.344	1.00 40.49
ATOM	4844		ASP I			9.038	50.869	78.111	1.00 41.73
MOTA	4845	N	LEU I			6.240	53.833	81.266	1.00 34.45
ATOM	4846	CA	LEU A			6.152	54.972	82.185	1.00 34.45
MOTA	4847	CA	LEU :			4.814	55.018	82.968	1.00 42.35
ATOM	4848	0	PEO 1			4.600	55.872	83.824	1.00 42.33
ATOM	4849	CB	LEU :			6.321	56.250	81.364	1.00 41.57
ATOM	4850	CG	LEU A			7.779	56.490	80.974	1.00 38.75
ALON	4030	CG	מ טפע	Η.	OU /	1.119	30.430	00.7/4	1.00 38.75

n mon	4051	CD1	LEU	7	607	7.954	57.746	80.132	1.00 34.34
ATOM	4851					8.695	56.653	82.183	1.00 34.34
ATOM	4852		LEU						
MOTA	4853	N	LYS			3.895	54.062	82.586	1.00 45.01
ATOM	4854	CA	LYS			2.576	53.874	83.264	1.00 46.99
MOTA	4855	С	LYS			1.625	55.088	83.181	1.00 51.31
MOTA	4856	0	ГÄS	A	608	0.988	55.467	84.151	1.00 51.35
MOTA	4857	CB	LYS	A	608	2.813	53.510	84.750	1.00 50.83
MOTA	4858	CG	LYS	Α	608	3.331	52.093	84.949	1.00 63.57
ATOM	4859	CD	LYS	Α	608	4.405	52.019	86.031	1.00 77.03
MOTA	4860	CE	LYS	Α	608	5.341	50.825	85.858	1.00 96.40
ATOM	4861	NZ	LYS	A	608	6.034	50.554	87.117	1.00100.00
ATOM	4862	N	VAL			1.560	55.724	81.991	1.00 50.28
MOTA	4863	CA			609	0.688	56.901	81.852	1.00 50.89
ATOM	4864	C	VAL			-0.494	56.660	80.897	1.00 60.23
ATOM	4865	0	VAL			-1.640	56.952	81.194	1.00 63.02
		СВ			609	1.533	58.091	81.364	1.00 54.72
MOTA	4866								
ATOM	4867		VAL			1.996	58.926	82.551	1.00 54.87
MOTA	4868		VAL			2.744	57.607	80.605	1.00 54.46
MOTA	4869	N	ASP			-0.177	56.152	79.687	1.00 58.84
MOTA	4870	CA	ASP			-1.238	55.949	78.699	1.00 99.84
ATOM	4871	C	ASP			-2.062	54.695	79.001	1.00100.00
MOTA	4872	0	ASP	Α	610	-3.247	54.615	78.711	1.00 69.75
MOTA	4873	CB	ASP	A	610	-0.594	55.818	77.316	1.00100.00
ATOM	4874	CG	ASP	A	610	-0.637	57.161	76.610	1.00 92.61
ATOM	4875	OD1	ASP	Α	610	-1.449	57.999	77.018	1.00 90.49
ATOM	4876	OD2	ASP	Α	610	0.134	57.355	75.670	1.00 89.29
ATOM		ZN2+	ZN	Z	1	17.003	38.803	64.180	1.00 28.37
ATOM		YB3+		Y	1	43.011	51.068	98.864	1.00 34.70
ATOM		YB3+		Y	2	-13.786	56.771	52.040	0.50 57.25
ATOM		YB3+		Y	3	-10.537	57.860	52.381	0.50 36.57
ATOM	4881	CG	IMD		ı	26.249	42.039	80.754	1.00 28.44
ATOM	4882	ND1	IMD	I	1	26.057	42.254	79.400	1.00 28.35
ATOM	4883	CD2	IMD	Ī	1	27.562	41.726	80.902	1.00 17.99
ATOM	4884	CE1	IMD	I	1	27.201	42.063	78.760	1.00 29.77
		NE2	IMD		1	28.130	41.745	79.647	1.00 35.02
ATOM	4885				1			68.475	1.00 59.33
ATOM	4886	CB	ACE			13.616	12.333		1.00 42.98
ATOM	4887	CG	ACE		1	12.871		69.306	
ATOM	4888		ACE		1	12.958	14.536	69.146	1.00 39.66
ATOM	4889		ACE		1	12.142	12.759	70.236	1.00 47.21
ATOM	4890	C6	INH		1	7.422	38.514	70.154	1.00 38.70
ATOM	4891	C5	INH		1	7.571	39.820	69.689	1.00 37.05
ATOM	4892	C4	INH		1	7.901	40.062	68.354	1.00 31.41
ATOM	4893	C3	INH		1	8.091	38.967	67.505	1.00 35.48
ATOM	4894	C2	INH	V	1	7.944	37.650	67.949	1.00 31.90
ATOM	4895	C1	INH	V	1	7.611	37.434	69.286	1.00 36.93
ATOM	4896	C7	INH	٧	1	8.071	41.463	67.833	1.00 32.28
ATOM	4897	01	INH	V	1	8.288	41.443	66.485	1.00 37.06
ATOM	4898	C8	INH	V	1	9.584	41.740	66.129	1.00 32.34
MOTA	4899	C9	INH	v	1	9.825	42.911	65.416	1.00 31.03
ATOM	4900	C10	INH	v	1	11.127	43.216	65.023	1.00 33.64
ATOM	4901		INH		1	12.194	42.381	65.339	1.00 31.88
ATOM	4902				1	11.928	41.198	66.028	1.00 31.07
ATOM	4903		INH		1	10.630	40.858	66.412	1.00 28.70
MOTA	4904		INH		1	13.587	42.710	64.882	1.00 32.51
	4905		INH		1	14.260	41.560	64.121	1.00 34.69
ATOM			INH		1	15.683	41.849	63.754	1.00 28.88
ATOM	4906							64.790	1.00 28.88
MOTA MOTA	4907	S1	INH		1	16.605	40.755		
77.1.4 JIMI	4908	N1	INH	٧	1	13.497	40.805	63.099	1.00 30.69

MOTA	4909	0	HOH W	1	44.463	49.888	77.523	1.00 46.91
ATOM	4910	0	HOH W	2	13.469	27.803	78.018	1.00 20.07
ATOM	4911	0	HOH W	3	4.225	69.721	58.393	1.00 27.76
MOTA	4912	0	HOH W	4	15.603	28.826	61.823	1.00 22.81
ATOM	4913	0	HOH W	5	22.862	26.624	42.874	1.00 53.05
ATOM	4914	0	HOH W	6	8.423	46.452	57.584	1.00 32.22
MOTA	4915	0	HOH W	7	17.904	46.550	68.524	1.00 31.91
MOTA	4916	0	HOH W	8	22.979	45.895	83.716	1.00 39.37
MOTA	4917	0	HOH W	9	17.707	39.158	55.643	1.00 25.27
ATOM	4918	0	HOH W	10	12.439	36.303	59.209	1.00 31.46
MOTA	4919	0	HOH W	11	17.367	62.730	50.320	1.00 37.74
MOTA	4920	0	HOH W	12	42.823	52.642	90.552	1.00 53.80
ATOM	4921	0	HOH W	13	34.337	45.508	97.419	1.00 57.99
MOTA	4922	0	HOH W	14	6.726	27.119	48.459	1.00 62.29
MOTA	4923	0	HOH W	15	-0.093	30.159	71.746	1.00 29.96
ATOM	4924	0	HOH W	16	-19.673	44.016	58.682	1.00 58.64
ATOM	4925	0	HOH W	17	16.563	26.790	80.837	1.00 38.62
ATOM	4926	0	HOH W	18	10.281	35.677	88.518	1.00 26.01
ATOM	4927	0	HOH W	19	20.973	35.691	44.774	1.00 49.50
ATOM	4928	0	HOH W	20	0.996	19.571	53.713	1.00 67.39
ATOM	4929	0	HOH W	21	20.424	37.014	85.845	1.00 39.54
MOTA	4930	0	HOH W	22	-2.498	35.905	53.781	1.00 51.70
ATOM	4931	0	HOH W	23	39.807	49.718	92.595	1.00 37.39
ATOM	4932	0	HOH W	24	16.431	58.267	93.127	1.00 47.45
ATOM	4933	0	HOH W	25	6.935	45.104	66.012	1.00 18.12
ATOM	4934	0	HOH W	26	40.479		100.253	1.00 28.72
ATOM	4935	0	HOH W	27	22.369	40.324	67.919	1.00 46.36
ATOM	4936	0	HOH W	28	37.289	49.457	68.016	1.00 61.37 1.00 24.45
ATOM	4937	0	HOH W	29	2.611 41.088	35.015 62.590	55.709 98.644	1.00 24.45
ATOM	4938 4939	0	нон w	30 31	17.369	55.024	87.465	1.00 03.30
ATOM ATOM	4939	0	HOH W	32	25.433	20.198	55.692	1.00 44.61
ATOM	4941	0	HOH W	33	3.890	42.770	66.651	1.00 22.34
ATOM	4942	0	нон w	34	3.934	63.391	62.592	1.00 60.69
ATOM	4943	ō	нон w	35	22.280	41.610	86.289	1.00 74.20
ATOM	4944	o	нон w	36	22.631	46.401	90.078	1.00 47.44
ATOM	4945	0	HOH W	37	33.442	20.227	64.569	1.00 55.41
MOTA	4946	0	HOH W	38	39.834	28.974	75.602	1.00 41.72
ATOM	4947	0	нон w	39	35.232	47.140	54.186	1.00 37.08
ATOM	4948	0	W HOH	40	36.003	57.784	57.893	1.00 43.05
ATOM	4949	0	HOH W	41	37.216	27.438	74.564	1.00 50.79
MOTA	4950	0	HOH W	42	17.770	67.012	77.183	1.00 45.78
MOTA	4951	0	HOH W	43	5.341	31.286	78.127	1.00 25.34
MOTA	4952	0	HOH W	44	33.535	32.503	52.063	1.00 56.13
MOTA	4953	0	HOH W	45	25.477	33.146	44.610	1.00 65.43
MOTA	4954	0	HOH W	46	16.235	37.438	52.628	1.00 32.10
ATOM	4955	0	HOH W	47	28.791	14.101	63.316	1.00 46.67
MOTA	4956	0	HOH W	48	10.230	24.992	86.967	1.00 38.63
MOTA	4957	0	HOH W	49	30.821	38.856	79.630	1.00 40.44
MOTA	4958	0	HOH W	50	12.621	37.226	62.944	1.00 26.70
MOTA	4959	0	HOH W	51	27.987	30.609		1.00 33.55
MOTA	4960	0	HOH W	52	34.459	28.696	64.242	1.00 51.01
ATOM	4961	0	HOH W	53	34.969	62.270	91.179	1.00 68.20
ATOM	4962	0	HOH W	54	33.631	30.717	62.396	1.00 41.64
MOTA	4963	0	HOH W	55	43.987	48.530	91.269	1.00 50.99
ATOM	4964	0	HOH M	56	23.412	28.584	85.186	1.00 69.23 1.00 81.00
ATOM	4965	0	HOH M	57	39.834	28.057	72.257 69.907	1.00 81.00
MOTA	4966	0	HOH W	58	2.892	25.685	07.50/	1.00 30.30

ATOM	4967	0	HOH W	59	10.284	47.120	72.671	1.00 40.28
ATOM	4968	o	HOH W	60	32.645	39.037	76.746	1.00 21.71
		0	HOH W	61			95.228	
ATOM	4969				43.535	48.019		1.00 37.69
ATOM	4970	0	HOH W	62	11.991	51.053	43.479	1.00 41.05
ATOM	4971	0	HOH W	63	18.329	56.527	89.388	1.00 28.51
MOTA	4972	0	HOH W	64	16.555	9.309	68.875	1.00 89.05
ATOM	4973	0	HOH W	65	23.741	44.759	73.150	1.00 38.43
ATOM	4974	0	HOH W	66	19.093	53.805	41.239	1.00 55.25
ATOM	4975	0	HOH W	67	31.750	60.369	56.933	1.00 92.26
ATOM	4976	0	HOH W	68	24.836	68.428	80.926	1.00 59.25
ATOM	4977	0	HOH W	69	-21.014	19.446	48.342	1.00 52.24
ATOM	4978	ō	нон w	70	11.318	68.028	86.566	1.00 77.81
ATOM	4979	0	HOH W	71	5.312	60.076	63.511	1.00 36.83
		o	HOH W	72		20.219	84.680	1.00 32.24
ATOM	4980				7.689			
MOTA	4981	0	HOH W	73	34.988	44.708	64.746	1.00 40.73
MOTA	4982	0	HOH W	74	10.614	49.644	41.337	1.00 38.90
ATOM	4983	0	HOH W	75	19.349	42.973	64.739	1.00 54.53
MOTA	4984	0	HOH W	76	35.916	30.862	80.753	1.00 55.38
ATOM	4985	0	HOH W	77	9.666	26.046	46.603	1.00 40.09
ATOM	4986	0	HOH W	78	-10.171	46.751	60.237	1.00 29.78
ATOM	4987	0	HOH W	79	46.751	58.883	86.875	1.00 35.92
ATOM	4988	0	HOH W	80	19.320	32.528	51.000	1.00 33.36
ATOM	4989	0	HOH W	81	28.815	39.568	66.176	1.00 59.19
ATOM	4990	ō	нон м	82	38.207	35.773	73.585	1.00 17.81
ATOM	4991	0	HOH W	83	23.802	33.775	75.175	1.00 25.19
ATOM	4992	0	HOH W	84	42.241	51.290	99.896	1.00 15.88
ATOM	4993	0	HOH W	85	3.751	36.678	58.842	1.00 24.97
MOTA	4994	0	HOH W	86	-7.009	40.341	62.580	1.00 25.39
MOTA	4995	0	HOH W	87	11.735	58.910	68.155	1.00 39.70
MOTA	4996	0	HOH W	88	13.986	52.835	42.224	1.00 50.91
MOTA	4997	0	HOH W	89	1.452	46.541	69.459	1.00 35.03
ATOM	4998	0	HOH W	90	-1.938	55.310	56.971	1.00 28.10
ATOM	4999	0	HOH W	91	13.801	66.947	52.600	1.00 38.65
ATOM	5000	0	HOH W	92	21.594	47.218	79.203	1.00 30.31
MOTA	5001	0	HOH W	93	10.639	58.632	90.827	1.00 43.78
MOTA	5002	0	HOH W	94	33.335	53.550	68.086	1.00 37.04
ATOM	5003	0	нон w	95	-1.984	28.738	60.212	1.00 31.56
ATOM	5004	0	HOH W	96	-4.958	51.055	59.250	1.00 34.00
MOTA	5005	0	HOH W	97	17.610	39.701	51.503	1.00 28.27
ATOM	5006	ō	HOH W	98	10.686	54.166	67.565	1.00 37.68
ATOM	5007	ō	HOH W	99	20.567	43.859	78.621	1.00 41.57
ATOM	5008	0	HOH W		7.013	22.332	69.109	1.00 28.72
					10.097			1.00 25.72
ATOM	5009	0	HOH W			53.225	78.477	
MOTA	5010	0	HOH W		10.849	31.404		1.00 32.22
MOTA	5011	0	HOH W		42.381	59.035	94.728	1.00 36.00
MOTA	5012	0	HOH W		17.234	41.111	54.082	1.00 33.65
MOTA	5013	0	HOH W		26.902	62.025		1.00 34.70
MOTA	5014	0	HOH W		-14.313	49.559	56.204	1.00 54.36
MOTA	5015	0	HOH W	107	41.646	57.501	101.015	1.00 68.12
ATOM	5016	0	HOH W	108	26.759	43.000	47.219	1.00 32.69
ATOM	5017	0	HOH W	109	16.624	48.119	46.545	1.00 38.64
ATOM	5018	0	HOH W		26.159	32.793		1.00 24.77
ATOM	5019	ō	HOH W		2.101	33.468	67.006	1.00 31.50
ATOM	5020	0	HOH W		38.114	36.374	87.451	1.00 44.06
ATOM	5021	0	HOH W		13.211	29.810	61.356	1.00 33.81
							40.673	1.00 37.92
MOTA	5022	0	HOH W		-3.064	37.863		
MOTA	5023	0	HOH W		15.007	47.948		1.00 28.23
ATOM	5024	0	HOH W	116	27.101	66.633	80.518	1.00 41.24

ATOM	5025	0	HOH W	117	11.870	38.304	43.174	1.00 40.85
MOTA	5026	0	HOH W		-13.844	25.597	58.258	1.00 53.75
ATOM	5027	0	HOH W		2.929	41.135	59.858	1.00 36.49
ATOM	5028	ō	HOH W		24.890	45.490	82.167	1.00 41.65
ATOM	5029	ō	HOH W		36.062	59.335	75.090	1.00 38.82
ATOM	5030	Ö	HOH W		-10.715	32.037	61.699	1.00 78.82
			HOH W		-2.646	25.492	60.812	1.00 48.40
ATOM	5031	0						
MOTA	5032	0	HOH W		-8.948	46.831	63.556	1.00 48.06
ATOM	5033	0	HOH W		-17.843	39.367	36.020	1.00 35.80
MOTA	5034	0	HOH W		2.218	57.766	62.253	1.00 44.61
MOTA	5035	0	HOH W		10.736	62.766	64.366	1.00 55.84
MOTA	5036	0	HOH W		0.884	35.562	63.963	1.00 44.14
ATOM	5037	0	HOH W	129	19.165	59.557	60.644	1.00 47.82
ATOM	5038	0	HOH W	130	1.546	27.875	68.443	1.00 39.69
MOTA	5039	0	HOH W	131	5.497	26.285	76.668	1.00 44.47
ATOM	5040	0	HOH W	132	14.505	36.538	88.996	1.00 40.00
ATOM	5041	0	HOH W	133	8.534	28.713	88.519	1.00 46.55
ATOM	5042	0	HOH W		6.125	45.267	77.959	1.00 45.57
MOTA	5043	0	HOH W		26.016	18.543	78.878	1.00 51.65
ATOM	5044	ō	нон м		33.880	23.025	70.739	1.00 46.95
ATOM	5045	0	HOH W		19.230	26.073	49.998	1.00 51.97
ATOM	5046	0	HOH W		41.563	41.085	77.326	1.00 43.14
ATOM							75.380	1.00 56.52
	5047	0	HOH W		39.187	63.067		
ATOM	5048	0	HOH W		26.878	54.491	67.203	1.00 42.14
MOTA	5049	0	HOH W		22.988	62.189	74.174	1.00 48.31
ATOM	5050	0	HOH W		25.190	62.803	71.067	1.00 67.16
ATOM	5051	0	HOH W		18.598	45.126	81.949	1.00 53.80
MOTA	5052	0	HOH W		19.782	53.129	90.556	1.00 48.73
ATOM	5053	0	HOH W		21.735	48.367	86.454	1.00 40.39
MOTA	5054	0	HOH W		25.707	57.012	93.476	1.00 53.61
MOTA	5055	0	HOH W	147	22.832	62.085	93.149	1.00 46.02
MOTA	5056	0	HOH W	148	25.725	67.203	89.990	1.00 75.23
MOTA	5057	0	HOH W	149	10.773	53.653	85.697	1.00 50.65
ATOM	5058	0	HOH W	150	4.221	58.449	86.608	1.00 49.23
MOTA	5059	0	HOH W	151	7.790	72.096	84.410	1.00 51.10
MOTA	5060	0	HOH W	152	2.387	58.282	67.835	1.00 33.29
ATOM	5061	0	HOH W	153	0.921	49.551	69.095	1.00 59.60
MOTA	5062	0	HOH W	154	8.722	45.171	71.561	1.00 46.56
MOTA	5063	0	HOH W	155	6.422	47.947	81.081	1.00 57.56
MOTA	5064	0	HOH W	156	15.936	56.908	55.129	1.00 43.33
MOTA	5065	0	HOH W	157	3,032	19.635	62.453	1.00 80.38
ATOM	5066	0	HOH W	158	-4.228	58.058	47.057	1.00 39.66
ATOM	5067	0	HOH W	159	1.197	41.002	78.942	1.00 57.22
ATOM	5068	0	HOH W	160	1.259	43.651	68.100	1.00 37.94
ATOM	5069	0	HOH W	161	25.799	64.833	56.690	1.00 38.96
MOTA	5070	0	HOH W		-11.853	45.054	45.070	1.00 38.38
ATOM	5071	0	HOH W		40.159	31.033	78.548	i.00 75.36
ATOM	5072	ō	HOH W		21.477	20.377	79.349	1.00 35.96
ATOM	5073	0	HOH W		26.347	44.558	72.803	1.00 42.21
ATOM	5074	Ö	HOH W		16.446	61.207	59.687	1.00 39.70
					27.695	64.216	82.410	1.00 44.71
ATOM	5075	0	HOH W			57.511		1.00 45.35
MOTA	5076	0	HOH W		-2.998		34.738	
MOTA	5077	0	HOH W		6.608	51.527	60.826	1.00 39.48
MOTA	5078	0	HOH W		31.104	28.934	81.337	1.00 43.19
ATOM	5079	0	HOH W		10.135	28.233	45.533	1.00 41.24
ATOM	5080	0	HOH W		8.201	43.960	75.322	1.00 37.71
MOTA	5081	0	HOH W		13.799	66.601	85.597	1.00 34.74
ATOM	5082	0	HOH W	174	16.664	53.670	65.006	1.00 43.69

ATOM	5083	0	HOH W	175	18.301	47.296	43.793	1.00 45.84
ATOM	5084	ō	HOH W		11.717	61.868	52.648	1.00 34.93
ATOM	5085	o	HOH W		29.516	23.822	76.838	1.00 51.50
MOTA	5086	0	HOH W		39.940	60.509	78.535	1.00 46.33
ATOM	5087	0	HOH W		-1.803	44.974	37.278	1.00 52.56
ATOM	5088	0	HOH W		7.343	47.305	65.468	1.00 47.27
ATOM	5089	0	HOH W		17.912	15.338	81.793	1.00 50.08
MOTA	5090	0	HOH W		-4.631	55.917	82.183	1.00 65.36
MOTA	5091	0	HOH W		32.973	42.656	86.667	1.00 43.97
MOTA	5092	0	HOH W	184	-1.834	36.784	71.040	1.00 45.10
MOTA	5093	0	HOH W	185	-4.519	34.633	71.838	1.00 43.99
MOTA	5094	0	HOH W	186	4.518	68.554	71.661	1.00 46.99
ATOM	5095	0	HOH W	187	2.774	37.503	61.490	1.00 45.81
ATOM	5096	0	HOH W	188	31.770	43.526	51.410	1.00 58.02
ATOM	5097	0	HOH W	189	5.471	43.861	38.891	1.00 49.43
ATOM	5098	0	HOH W	190	11.934	58.219	70.811	1.00 49.96
ATOM	5099	0	HOH W		33.112	26.203	70.484	1.00 60.03
ATOM	5100	Ō	HOH W		30.914	43.017	70.613	1.00 73.23
ATOM	5101	ō	HOH W		0.400	39.300	39.714	1.00 65.37
ATOM	5102	o	HOH W		48.247	56.159	86.370	1.00 60.09
ATOM	5102	0	HOH W		12.359	59.992	62.698	1.00 53.57
							78.264	
ATOM	5104	0	HOH W		11.149	17.504		1.00 54.43
ATOM	5105	0	HOH W		-4.284	31.953	60.991	1.00 47.12
MOTA	5106	0	HOH W		29.888	35.624	82.772	1.00 52.16
ATOM	5107	0	HOH W		14.388	39.115	89.656	1.00 47.93
ATOM	5108	0	HOH W		-8.529	51.475	47.745	1.00 61.00
MOTA	5109	0	HOH W		-15.572	53.338	52.008	1.00 72.42
ATOM	5110	0	HOH W		24.319	38.590	87.128	1.00 50.03
ATOM	5111	0	HOH W	203	25.366	70.670	82.839	1.00 49.01
MOTA	5112	0	HOH W	204	18.531	27.749	86.236	1.00 48.64
ATOM	5113	0	HOH W	205	21.694	20.030	81.796	1.00 49.04
MOTA	5114	0	HOH W	206	23.953	47.993	67.580	1.00 40.39
MOTA	5115	0	HOH W	207	22.012	40.217	90.228	1.00 42.29
MOTA	5116	0	HOH W	208	16.197	45.094	43.427	1.00 48.00
MOTA	5117	0	HOH W	209	21.019	68.985	84.382	1.00 56.50
MOTA	5118	0	HOH W	210	-7.134	33.015	71.591	1.00 56.31
MOTA	5119	0	HOH W	211	40.843	44.050	89.284	1.00 43.07
MOTA	5120	0	HOH W	212	20.374	14.856	56.642	1.00 50.07
MOTA	5121	0	HOH W	213	12.723	46.277	73.748	1.00 59.15
MOTA	5122	0	HOH W	214	8.956	43.704	58.706	1.00 45.56
ATOM	5123	0	HOH W	215	-2.433	36.012	80.232	1.00 54.12
ATOM	5124	0	HOH W	216	5.257	25.271	55.914	1.00 53.23
ATOM	5125	0	HOH W		13.354	64.403	53.862	1.00 47.27
ATOM	5126	0	HOH W		30.477	42.517	67.472	1.00 48.17
ATOM	5127	0	нон w		14.139	47.479	76.123	1.00 79.04
ATOM	5128	0	HOH W		0.829	29.563	50.769	1.00 48.10
ATOM	5129	ō	HOH W		32.979	51.667	96.624	1.00 51.30
ATOM	5130	ō	нон ж		14.677	45.948	71.756	1.00 52.31
ATOM	5131	ŏ	HOH W		33.890	24.505	58.094	1.00 43.65
MOTA	5132	0	HOH W		17.853	9.519	65.560	1.00 55.94
ATOM	5132	0	HOH W		37.794	31.473	62.305	1.00 50.38
ATOM	5133	0	HOH W		29.206	50.335	62.673	1.00 45.43
		0	HOH W		4.932	48.808	63.354	1.00 42.45
ATOM	5135 5136							1.00 42.45
ATOM	5136	0	HOH W		18.933	59.070	55.899	
ATOM	5137	0	HOH W		13.849	18.833	83.641	1.00 55.89
ATOM	5138	0	HOH W		25.919	46.022	68.076	1.00 35.63
ATOM	5139	0	HOH W		27.565	65.098	75.153	1.00 73.11
MOTA	5140	0	HOH W	232	27.128	39.012	68.497	1.00 40.77

MOTA	5141	0	HOH W	233	40.706	52.468	74.641	1.00 51.60
MOTA	5142	0	HOH W	234	21.689	65.312	58.080	1.00 66.72
MOTA	5143	0	HOH W	235	9.121	17.615	59.271	1.00 51.98
MOTA	5144	0	HOH W	236	17.931	36.565	88.091	1.00 54.77
MOTA	5145	0	HOH W	237	33.843	36.707	52.576	1.00 61.60
MOTA	5146	0	HOH W	238	-3.693	50.074	63.986	1.00 43.64
ATOM	5147	0	HOH W	239	44.272	44.279	81.461	1.00 69.21
MOTA	5148	0	HOH W	240	2.092	28.868	52.894	1.00 54.01
ATOM	5149	0	HOH W	241	8.309	33.518	71.442	1.00 68.05
ATOM	5150	0	HOH W	242	1.051	31.947	69.204	1.00 52.88
MOTA	5151	0	HOH W	243	44.255	51.162	96.650	1.00 20.00
MOTA	5152	0	нон w	244	16.173	45.408	46.636	1.00 20.00
ATOM	5153	0	HOH W	245	41.130	50.734	97.991	1.00 20.00
ATOM	5154	0	HOH W	246	36.912	36.263	75.911	1.00 20.00
ATOM	5155	0	HOH W	247	-17.107	27.146	54.728	1.00 20.00
MOTA	5156	0	HOH W	248	24.078	46.307	79.123	1.00 20.00
MOTA	5157	0	HOH W	249	-12.250	47.964	61.593	1.00 20.00
MOTA	5158	0	HOH W	250	35.804	51.343	51.682	1.00 20.00
MOTA	5159	0	HOH W	251	25.537	59.940	69.750	1.00 20.00
ATOM	5160	0	HOH W	252	0.539	55.427	62.088	1.00 20.00
END								

Table 11: Structure coordinates of LTA₄ hydrolase-hydroxamic acid complex

CRYST	67.	770	132	.470	83.70	0.00	90.00	90.00	P21212
		Atom			ain No.	x	У	Z	occ B-factor
MOTA	1	N	PRO	A 🕶	1	-2.215	16.942	65.912	1.00 98.67
ATOM	2	CA	PRO	A	1	-2.492	18.109	66.739	1.00 96.57
ATOM	3	С	PRO	A	1	-1.985	19.345	66.046	1.00 90.92
MOTA	4	0	PRO	A	1	-0.791	19.459	65.732	1.00 87.94
MOTA	5	CB	PRO	Α	1	-1.747	17.907	68.073	1.00 98.18
ATOM	6	CG	PRO	Α	1	-1.000	16.573	67.973	1.00100.00
MOTA	7	CD	PRO	Α	1	-1.249	16.011	66.573	1.00 97.96
ATOM	8	N	GLU	A	2	-2.895	20.262	65.790	1.00 83.08
ATOM	9	CA	GLU	Α	2	-2.492	21.448	65.116	1.00 81.25
ATOM	10	С	GLU	Α	2	-1.948	22.471	66.074	1.00 80.21
ATOM	11	0	GLU	A	2	-2.444	22.625	67.189	1.00 80.90
ATOM	12	CB	GLU	A	2	-3.549	22.038	64.168	1.00 82.10
MOTA	13	CG	GLU	A	2	-2.895	22.838	63.023	1.00 92.94
ATOM	14	CD	GLU	A	2	-1.451	22.466	62.778	1.00 95.77
ATOM	15	OE1	GLU	A	2	-0.520	23.237	62.917	1.00 94.64
ATOM	16	OE2	GLU	A	2	-1.307	21.231	62.383	1.00 74.00
ATOM	17	N	ILE	A	3	-0.898	23.141	65.624	1.00 69.91
ATOM	18	CA	ILB	A	3	-0.300	24.192	66.393	1.00 66.19
ATOM	19	C	ILE	A	3	-1.124	25.431	66.042	1.00 60.35
MOTA	20	0	ILE	A	3	-1.438	25.713	64.866	1.00 60.57
MOTA	21	CB	ILE	A.	3	1.215	24.316	66.167	1.00 69.46
MOTA	22	CG1	ILE	A	3	1.919	23.117	66.809	1.00 69.22
MOTA	23	CG2	ILE	A	3	1.772	25.604	66.769	1.00 70.57
ATOM	24	CD1	ILE	A	3	2.674	23.468	68.090	1.00 67.16
MOTA	25	N	VAL	A	4	-1.546	26.135	67.071	1.00 47.12
MOTA	26	CA	VAL	A	4	-2.372	27.296	66.856	1.00 43.66
ATOM	27	C	VAL	A	4	-1.621	28.601	66.943	1.00 36.61
ATOM	28	0	VAL	A	4	-0.804	28.799	67.843	1.00 33.97
MOTA	29	CB	VAL	A	4	-3.580	27.282	67.811	1.00 46.37
MOTA	30	CG1	VAL	A	4	-4.296	28.636	67.855	1.00 44.31
MOTA	31	CG2	VAL	A	4	-4.552	26.203	67.353	1.00 45.89
MOTA	32	N	ASP	A	5	-1.920	29.496	65.997	1.00 25.42
MOTA	33	CA	ASP	A	5	-1.311	30.793	66.050	1.00 22.70
ATOM	34	C	ASP	A	5	-2.262	31.630	66.874	1.00 26.31
ATOM	35	0	ASP	A	5	-3.285	32.069	66.397	1.00 25.00
ATOM	36	CB	ASP	A	5	-1.083	31.454	64.687	1.00 23.91
ATOM	37	CG	ASP	A	5	-0.248	32.685	64.868	1.00 28.48
MOTA	38		ASP		5	-0.199	33.272	65.935	1.00 27.12
MOTA	39	OD2	ASP	A	5	0.383	33.068	63.776	1.00 23.01
MOTA	40	N	THR		6	-1.942	31.792	68.144	1.00 25.96
MOTA	41	CA	THR		6	-2.799	32.525	69.029	1.00 23.74
ATOM	42	C	THR		6	-2.689	34.005	68.859	1.00 27.92
MOTA	43	0	THR		6	-3.169	34.763	69.701	1.00 31.80
ATOM	44	CB	THR		6	-2.629	32.111	70.483	1.00 25.94
MOTA	45		THR		6	-1.315	32.422	70.891	1.00 40.88
MOTA	46	CG2			6	-2.867	30.609	70.627	1.00 29.05
MOTA	47	N	CYS		7	~2.068	34.442	67.779	1.00 23.72
MOTA	48	CA	CYS		7	-1.967	35.893	67.566	1.00 24.38
ATOM	49	С	CYS		7	-2.737	36.321	66.325	1.00 28.42
MOTA	50	0	CYS		7	-2.766	37.475	65.965	1.00 27.59
MOTA	51	CB	CYS		7	-0.516	36.435	67.449	1.00 23.86
MOTA	52	SG	CYS	A	7	0.510	36.080	68.886	1.00 29.33

3.0004		17		_	•	2 204	25 250	CE C30	1 00 00 00
MOTA	53	N	SER		8	-3.324	35.370	65.638	1.00 27.23
MOTA	54	CA	SER		8	-4.020	35.686	64.419	1.00 25.64
ATOM	55	C	SER	A	8	-5.479	35.340	64.538	1.00 25.31
ATOM	56	0	SER	A	8	-5.867	34.421	65.273	1.00 22.83
ATOM	57	CB	SER	A	8	-3.368	34.908	63.278	1.00 26.35
ATOM	58	OG	SER	Α	8	~4.090	35.105	62.093	1.00 29.02
MOTA	59	N	LEU	A	9	~6.298	36.071	63.799	1.00 20.95
ATOM	60	CA	LEU		9	-7.720	35.750	63.869	1.00 20.81
ATOM	61	C	LEU		9	-8.188	35.158	62.554	1.00 24.77
							34.872		
ATOM	62	0	LEU		9	-9.364		62.381	1.00 28.22
ATOM	63	CB	LEU		9	-8.573	36.991	64.170	1.00 20.29
ATOM	64	CG	LEU		9	-8.171	37.744	65.434	1.00 21.06
MOTA	65		LEU		9	-8.875	39.088	65.438	1.00 22.40
ATOM	66	CD2	LEU	Α	9	-8.576	36.926	66.656	1.00 15.77
ATOM	67	N	ALA	Α	10	-7.240	35.040	61.630	1.00 22.60
ATOM	68	CA	ALA	A	10	-7.461	34.528	60.294	1.00 17.85
ATOM	69	С	ALA	Α	10	-7.633	33.039	60.254	1.00 23.94
ATOM	70	0	ALA	Α	10	-7.281	32.298	61.178	1.00 22.85
ATOM	71	CB	ALA		10	-6.291	34.891	59.397	1.00 15.48
ATOM	72	N	SER		11	-8.170	32.590	59.129	1.00 25.50
ATOM	73	CA	SER		11	-8.306	31.156	58.921	1.00 27.59
									1.00 27.33
MOTA	74	C	SER		11	-6.887	30.575	58.992	
MOTA	75	0	SER		11	-5.938	31.112	58.437	1.00 26.43
MOTA	76	CB	SER		11	-8.917	30.833	57.544	1.00 29.01
MOTA	77	OG	SER		11	-10.241	31.338	57.445	1.00 28.50
MOTA	78	N	PRO	A	12	-6.740	29.460	59.662	1.00 23.36
MOTA	79	CA	PRO	Α	12	-5.445	28.827	59.798	1.00 20.96
MOTA	80	C	PRO	Α	12	-4.949	28.121	58.533	1.00 34.02
MOTA	81	0	PRO	Α	12	-5.743	27.764	57.646	1.00 34.95
ATOM	82	CB	PRO	Α	12	-5.590	27.834	60.952	1.00 22.26
MOTA	83	CG	PRO	Α	12	-7.080	27.652	61.201	1.00 29.49
ATOM	84	CD	PRO	Α	12	-7.769	28.845	60.542	1.00 25.95
ATOM	85	N	ALA	Α	13	-3.615	27.927	58.479	1.00 29.46
ATOM	86	CA	ALA		13	-2.922	27.276	57.385	1.00 25.81
ATOM	87	C	ALA		13	-3.531	25.912	57.109	1.00 27.87
ATOM	88	o	ALA		13	-3.320	25.321	56.072	1.00 30.10
ATOM	89	CB	ALA		13	-1.458	27.115	57.746	1.00 25.60
MOTA	90	И	SER		14	-4.288	25.389	58.038	1.00 20.61
	91	CA	SER		14	-4.876	24.090	57.814	1.00 24.37
MOTA							24.030	57.108	1.00 24.37
ATOM	92	C	SER		14	-6.230			
MOTA	93	0	SER		14	-6.831	23.183	56.733	1.00 35.15
MOTA	94	CB	SER		14	-5.031	23.366	59.137	1.00 29.06
ATOM	95	OG	SER		14	-5.775	24.180	60.037	1.00 31.14
ATOM	96	N	VAL		15	-6.721	25.392	56.944	1.00 24.99
ATOM	97	CA	VAL		15	-7.984	25.582	56.278	1.00 25.26
ATOM	98	С	VAL	A	15	-7.774	26.148	54.865	1.00 27.71
MOTA	99	0	VAL	A	15	-8.348	25.688	53.886	1.00 27.54
ATOM	100	CB	VAL	Α	15	-8.876	26.466	57.127	1.00 29.72
MOTA	101	CG1	VAL	A	15	-9.999	27.045	56.271	1.00 30.81
ATOM	102		VAL		15	-9.411	25.656	58.298	1.00 27.89
ATOM	103	Ŋ	CYS		16	-6.921	27.144	54.764	1.00 20.14
ATOM	104	CA	CYS		16	-6.594	27.769	53.503	1.00 24.17
ATOM	105	C	CYS		16	-5.265	28.490	53.629	1.00 26.96
ATOM	106	Ö	CYS		16	-4.834	28.793	54.744	1.00 28.25
ATOM	107	CB	CYS		16	-7.703	28.694	52.944	1.00 28.08
		SG	CYS		16	-7.703	30.231	53.880	1.00 34.58
ATOM	108							52.496	1.00 34.38
ATOM	109	N	ARG		17	-4.622	28.749		
ATOM	110	CA	ARG	A	17	-3.344	29.409	52.520	1.00 22.15

MOTA	111	С	ARG	Δ	17	-3.186	30.347	51.365	1 00	26.96
		0	ARG			-3.415	30.002	50.202		23.44
ATOM	112				17					
MOTA	113	CB	ARG		17	-2.147	28.451	52.443		26.39
MOTA	114	CG	ARG		17	-2.231	27.181	53.264		24.30
ATOM	115	CD	ARG		17	-1.416	26.086	52.599	1.00	28.56
MOTA	116	NE	ARG	Α	17	-0.772	25.134	53.510	1.00	51.45
MOTA	117	CZ	ARG	Α	17	-1.392	24.225	54.263	1.00	69.75
ATOM	118	NH1	ARG	Α	17	-2.693	24.086	54.287	1.00	72.82
ATOM	119	NH2	ARG	Α	17	-0.694	23.418	55.032	1.00	48.88
ATOM	120	N	THR		18	-2.723	31.532	51.700		21.89
ATOM	121	CA	THR		18	-2.478	32.539	50.713		20.46
		C								27.00
ATOM	122		THR		18	-1.200	32.197	50.007		
ATOM	123	0	THR		18	-0.207	31.923	50.662		26.28
MOTA	124	CB	THR		18	-2.370	33,949	51.337		21.64
ATOM	125	OG1	THR		18	-3.539	34.262	52.076		25.03
MOTA	126	CG2	THR	A	18	-2.164	34.944	50.211	1.00	21.73
ATOM	127	N	LYS	A	19	-1.235	32.203	48.677	1.00	22.54
MOTA	128	CA	LYS	A	19	-0.091	31.871	47.864	1.00	21.16
ATOM	129	C	LYS	Α	19	0.538	33.063	47.238	1.00	23.51
ATOM	130	0	LYS	Α	19	1.732	33.098	46.968	1.00	23.00
ATOM	131	CB	LYS		19	-0.557	30.976	46.740	1.00	24.60
ATOM	132	CG	LYS		19	-1.311	29.775	47.257		34.24
ATOM	133	CD	LYS		19	-0.944	29.419	48.688		65.32
MOTA	134	CE	LYS		19	0.230	28.442	48.793		75.40
		NZ	LYS		19		28.796	49.864		66.99
MOTA	135					1.183				
ATOM	136	N	HIS		20	-0.280	34.053	46.967		22.30
MOTA	137	CA	HIS		20	0.201	35.250	46.309		20.94
ATOM	138	C	HIS		20	-0.588	36.484	46.673		23.90
MOTA	139	0	HIS		20	-1.779	36.414	47.022		23.31
ATOM	140	CB	HIS	Α	20	0.054	35.095	44.801		19.15
ATOM	141	CG	HIS	Α	20	0.888	36.085	44.129		20.96
MOTA	142	NDI	HIS	A	20	2.258	36.003	44.163		22.60
MOTA	143	CD2	HIS	Α	20	0.538	37.198	43.437	1.00	24.10
MOTA	144	CE1	HIS	Α	20	2.725	37.040	43.496	1.00	23.71
ATOM	145	NE2	HIS	Α	20	1.708	37.784	43.025	1.00	24.51
MOTA	146	N	LEU	A	21	0.105	37.600	46.594	1.00	26.18
MOTA	147	CA	LEU	Α	21	-0.484	38.893	46.871	1.00	27.24
MOTA	148	C	LEU	Α	21	-0.104	39.856	45.805	1.00	27.01
ATOM	149	0	LEU		21	1.076	40.014	45.522	1.00	27.97
MOTA	150	CB	LEU		21	-0.064	39.501	48.215		28.80
ATOM	151	CG	LEU		21	-0.335	41.006	48.296		34.13
MOTA	152		LEU		21	-1.834	41.309	48.440		36.26
MOTA	153		LEU		21	0.393	41.578	49.504		36.24
			HIS		22		40.475	45.203		28.25
MOTA	154	N				-1.110				
ATOM	155	CA	HIS		22	-0.852	41.482	44.186		30.03
MOTA	156	C	HIS		22	-1.272	42.800	44.795		31.36
ATOM	157	O	HIS		22	-2.435	42.993	45.127		30.57
MOTA	158	CB	HIS		22	-1.560	41.291	42.844		31.66
MOTA	159	CG	HIS		22	-1.060	42.347	41.913		34.36
MOTA	160		HIS		22	-1.913	43.134	41.187		37.39
MOTA	161	CD2	HIS	Α	22	0.208	42.734	41.635	1.00	37.45
ATOM	162	CE1	HIS	A	22	-1.155	43.968	40.481	1.00	38.02
ATOM	163	NE2	HIS	A	22	0.132	43.757	40.730	1.00	37.95
ATOM	164	N	LEU		23	-0.315	43.668	45.000		31.07
ATOM	165	CA	LEU		23	-0.593	44.939	45.637		31.63
ATOM	166	C	LEU		23	-0.469	46.144	44.705		32.72
ATOM	167	o	LEU		23	0.563	46.431	44.093		34.74
ATOM	168	СВ	LEU		23	0.299	45.093	46.894		31.20
ALON	100	CD		•	دے	0.433	3J.UJJ	-U.UJ4	2.00	J4.20

ATOM	169	CG	LEU	λ	23	-0.320	45.795	48.126	1.00 34.26
ATOM	170		LEU		23	0.543	46.966	48.510	1.00 32.64
	171		LEU		23			47.957	1.00 34.32
MOTA						-1.759	46.263		
MOTA	172	N	ARG		24	-1.576	46.840	44.623	1.00 28.33
MOTA	173	CA	ARG		24	-1.681	48.040	43.837	1.00 30.28
ATOM	174	C	ARG		24	-2.162	49.119	44.794	1.00 35.16
MOTA	175	0	ARG		24	-3.251	49.005	45.349	1.00 35.74
ATOM	176	CB	ARG	Α	24	-2.651	47.860	42.689	1.00 32.69
ATOM	177	CG	ARG	Α	24	-1.962	47.363	41.423	1.00 55.58
ATOM	178	CD	ARG	Α	24	-2.732	47.698	40.144	1.00 67.44
ATOM	179	NE	ARG	A	24	-3.993	46.971	40.030	1.00 64.57
ATOM	180	CZ	ARG	Α	24	-5.150	47.440	40.498	1.00 97.41
ATOM	181	NH1	ARG	Α	24	-5.246	48.624	41.108	1.00 81.55
ATOM	182		ARG		24	-6.249	46.713	40.344	1.00100.00
ATOM	183	N	CYS		25	-1.320	50.126	45.045	1.00 36.40
ATOM	184	CA	CYS		25	-1.696	51.181	45.998	1.00 36.70
ATOM	185	C	CYS		25	-0.996	52.522	45.815	1.00 34.57
MOTA	186	0	CYS		25	0.030	52.676	45.100	1.00 30.46
ATOM	187	CB	CYS		25	-1.599	50.732	47.481	1.00 37.45
MOTA	188	SG	CYS		25	0.119	50.641	48.047	1.00 41.07
MOTA	189	N	SER		26	-1.606	53.493	46.507	1.00 32.19
MOTA	190	CA	SER	A	26	-1.098	54.841	46.486	1.00 32.91
MOTA	191	C	SER	A	26	-0.861	55.372	47.877	1.00 28.73
MOTA	192	0	SER	A	26	-1.638	55.107	48.802	1.00 24.93
MOTA	193	CB	SER	A	26	-1.884	55.825	45.626	1.00 41.21
ATOM	194	OG	SER	Α	26	-0.987	56.748	45.012	1.00 55.61
ATOM	195	N	VAL	Α	27	0.258	56.092	47.964	1.00 28.06
ATOM	196	CA	VAL	Α	27	0.719	56.718	49.172	1.00 29.85
ATOM	197	C	VAL	Α	27	0.330	58.199	49.211	1.00 33.50
ATOM	198	0	VAL	Α	27	0.868	59.024	48.443	1.00 31.85
ATOM	199	CB	VAL		27	2.217	56.509	49.370	1.00 34.37
MOTA	200		VAL		27	2.605	57.003	50.774	1.00 35.81
ATOM	201	CG2			27	2.481	55.004	49.263	1.00 33.03
ATOM	202	N	ASP		28	-0.626	58.489	50.106	1.00 31.46
ATOM	203	CA	ASP		28	-1.137	59.841	50.327	1.00 32.29
ATOM	204	C	ASP		28	-0.700	60.403	51.687	1.00 27.74
ATOM	205	0	ASP		28	-1.254	60.057	52.728	1.00 25.85
ATOM	205	CB	ASP		28	-2.663	59.943	50.144	1.00 25.85
		CG	ASP		28				1.00 43.54
MOTA	207		ASP			-3.158	61.380	50.016	
MOTA	208				28	-2.559	62.348	50.463	1.00 39.89
ATOM	209		ASP		28	-4.290	61.467	49.353	1.00 50.90
ATOM	210	N	PHE		29	0.311	61.251	51.614	1.00 29.04
MOTA	211	CA	PHE		29	0.913	61.918	52.741	1.00 32.69
MOTA	212	C	PHE		29	0.011	63.004	53.317	1.00 46.23
MOTA	213	0	PHE		29	0.021	63.341	54.511	1.00 49.95
MOTA	214	CB	PHE		29	2.199	62.568	52.288	1.00 34.84
MOTA	215	CG	PHE		29	3.371	61.627	52.322	1.00 37.91
MOTA	216	CD1	PHE	A	29	3.961	61.270	53.534	1.00 39.04
MOTA	217	CD2	PHE	Α	29	3.893	61.111	51.136	1.00 39.45
MOTA	218	CE1	PHE	Α	29	5.064	60.419	53.565	1.00 39.96
MOTA	219	CE2	PHE	A	29	4.992	60.254	51.153	1.00 43.33
MOTA	220	CZ	PHE		29	5.573	59.908	52.373	1.00 39.81
ATOM	221	N	THR		30	-0.788	63.569	52.445	1.00 43.44
MOTA	222	CA	THR		30	-1.695	64.590	52.870	1.00 40.68
MOTA	223	C	THR		30	-2.776	63.990	53.751	1.00 36.25
ATOM	224	ō	THR		30	-3.160	64.575	54.741	1.00 37.59
ATOM	225	СВ	THR		30	-2.241	65.353	51.661	1.00 37.33
ATOM	225		THR		30	-1.312	66.379	51.280	1.00 35.00
AT ON	220	OGT.	TUK	~	20	-1.312	00.3/3	J1.20U	1.00 33.00

ATOM	227	CG2	THR	Δ	30	-3.634	65.886	51.979	1.00 42.00
ATOM	228	N	ARG		31	-3.249	62.803	53.426	1.00 23.27
						-4.258			1.00 23.27
ATOM	229	CA	ARG		31		62.179	54.263	
MOTA	230	С	ARG		31	-3.670	61.084	55.187	1.00 28.33
ATOM	231	0	ARG		31	-4.388	60.485	56.013	1.00 26.36
MOTA	232	CB	ARG	A	31	-5.360	61.545	53.423	1.00 29.16
ATOM	233	CG	ARG	Α	31	-6.236	62.579	52.723	1.00 52.89
ATOM	234	CD	ARG	A	31	-6.324	62.368	51.215	1.00 63.14
ATOM	235	NE	ARG	A	31	-5.912	63.537	50.434	1.00 56.84
ATOM	236	CZ	ARG	A	31	-6.777	64.353	49.868	1.00 58.33
ATOM	237		ARG		31	-8.084	64.154	49.996	1.00 45.96
ATOM	238		ARG		31	-6.335	65.393	49.166	1.00 57.96
MOTA	239	N	ARG		32	-2.353	60.838	55.018	1.00 28.39
ATOM	240	CA	ARG		32	-1.587	59.832	55.754	1.00 28.42
ATOM	241	C	ARG		32	-2.248	58.498	55.548	1.00 31.13
MOTA	242	0	ARG		32	-2.553	57.754	56.484	1.00 26.52
MOTA	243	CB	ARG		32	-1.353	60.163	57.233	1.00 22.96
ATOM	244	CG	ARG	A	32	-1.083	61.654	57.442	1.00 46.47
MOTA	245	CD	ARG	Α	32	0.247	62.022	58.108	1.00 65.92
MOTA	246	NE	ARG	A	32	0.307	61.670	59.532	1.00 62.95
ATOM	247	CZ	ARG	Α	32	1.244	62.060	60.403	1.00 56.24
MOTA	248	NH1	ARG	Α	32	2.259	62.862	60.090	1.00 38.45
ATOM	249	NH2	ARG	A	32	1.150	61.628	61.644	1.00 38.26
MOTA	250	N	THR	Α	33	-2.503	58.222	54.278	1.00 30.15
ATOM	251	CA	THR		33	-3.148	56.969	53.940	1.00 30.69
ATOM	252	C	THR		33	-2.460	56.247	52.816	1.00 30.70
ATOM	253	ō	THR		33	-1.765	56.842	51.978	1.00 27.23
ATOM	254	СВ	THR		33	-4.603	57.146	53.467	1.00 39.23
ATOM	255	OG1			33	-4.637	58.100	52.420	1.00 37.97
	256	CG2	THR		33	-5.567	57.481	54.598	1.00 34.16
ATOM								52.842	1.00 34.10
ATOM	257	N	LEU		34	-2.719	54.950		
MOTA	258	CA	LEU		34	-2.279	54.012	51.842	1.00 32.01
MOTA	259	C	LEU		34	-3.598	53.483	51.332	1.00 26.54
ATOM	260	0	LEU		34	-4.426	53.031	52.106	1.00 25.08
MOTA	261	CB	PEA		34	-1.518	52.805	52.428	1.00 35.05
ATOM	262	CG	LEU		34	-0.007	52.880	52.357	1.00 42.66
MOTA	263	CD1	LEU	A	34	0.537	51.446	52.425	1.00 41.75
ATOM	264	CD2	LEU	A	34	0.434	53.610	51.081	1.00 49.07
ATOM	265	N	THR	A	35	-3.828	53.576	50.050	1.00 27.44
ATOM	266	CA	THR	Α	35	-5.088	53.081	49.552	1.00 29.43
ATOM	267	C	THR	Α	35	-4.825	52.257	48.316	1.00 33.69
ATOM	268	0	THR	Α	35	-3.896	52.559	47.532	1.00 31.06
ATOM	269	CB	THR	A	35	-6.004	54.248	49.195	1.00 49.67
ATOM	270	OG1			35	-5.775	55.297	50.111	1.00 56.12
ATOM	271	CG2	THR	Α	35	-7.442	53.781	49.282	1.00 53.32
ATOM	272	N	GLY		36	-5.638	51.220	48.172	1.00 31.25
ATOM	273	CA	GLY		3.6	-5.509	50.336	47.024	1.00 30.78
MOTA	274	c	GLY		36	-6.314	49.072	47.144	1.00 27.36
	275	o	GLY		36	-7.358	48.969	47.773	1.00 26.53
ATOM								46.504	1.00 27.32
ATOM	276	N	THR		37	-5.809 -6.478	48.080		
ATOM	277	CA	THR		37	-6.478	46.793	46.579	1.00 29.08
ATOM	278	C	THR		37	-5.460	45.717	46.846	1.00 29.62
ATOM	279	0	THR		37	-4.321	45.787	46.370	1.00 27.85
ATOM	280	CB	THR		37	-7.268	46.425	45.311	1.00 35.94
MOTA	281	OG1			37	-6.546	46.790	44.142	1.00 33.45
ATOM	282	CG2	THR	A	37	-8.601	47.144	45.350	1.00 41.23
MOTA	283	N	ALA		38	-5.867	44.738	47.609	1.00 28.10
MOTA	284	CA	ALA	A	38	-4.934	43.674	47.856	1.00 27.55

B. (110.)	205				2.0	F 400	40 447	47.137	1.00 30.70
ATOM	285	C	ALA		38	-5.482	42.447		
ATOM	286	0	ALA		38	-6.536	41.941	47.510	1.00 31.51
ATOM	287	CB	ALA	A	38	-4.803	43.425	49.339	1.00 26.00
MOTA	288	N	ALA	Α	39	-4.798	41.981	46.090	1.00 27.63
ATOM	289	CA	ALA	A	39	-5.280	40.761	45.394	1.00 29.40
MOTA	290	С	ALA	Α	39	-4.563	39.541	45.966	1.00 29.05
ATOM	291	0	ALA	A	39	-3.371	39.333	45.734	1.00 28.04
ATOM	292	СВ	ALA		39	-5.024	40.787	43.888	1.00 30.14
	293	N	LEU		40	-5.327	38.780	46.713	1.00 26.03
ATOM									
ATOM	294	CA	LEU		40	-4.899	37.591	47.392	1.00 26.04
MOTA	295	C	LEU		40	-5.304	36.310	46.637	1.00 30.62
ATOM	296	0	LEU	Α	40	-6.499	36.038	46.394	1.00 28.36
MOTA	297	CB	LEU	A	40	-5.596	37.499	48.779	1.00 24.92
MOTA	298	CG	LEU	A	40	-5.312	38.663	49.725	1.00 27.54
ATOM	299	CD1	LEU	A	40	-5.870	38.272	51.074	1.00 29.18
MOTA	300	CD2	LEU	Α	40	-3.817	38.865	49.857	1.00 26.20
ATOM	301	N	THR		41	-4.302	35.498	46.326	1.00 23.66
ATOM	302	CA	THR		41	-4.566	34.232	45.700	1.00 23.84
									1.00 23.04
MOTA	303	C	THR		41	-4.509	33.259	46.841	
MOTA	304	0	THR		41	-3.448	33.076	47.421	1.00 28.49
ATOM	305	CB	THR		41	~3.554	33.854	44.613	1.00 38.89
MOTA	306	OG1			41	-3.594	34.801	43.555	1.00 32.11
ATOM	307	CG2	THR	Α	41	-3.856	32.426	44.113	1.00 33.97
MOTA	308	N	VAL	А	42	~5.674	32.704	47.169	1.00 25.76
MOTA	309	CA	VAL	Α	42	-5.843	31.782	48.261	1.00 26.45
MOTA	310	C	VAL	Α	42	-6.068	30.356	47.804	1.00 34.04
ATOM	311	0	VAL	Α	42	-6.730	30.118	46.795	1.00 33.15
ATOM	312	CB	VAL		42	-7.024	32.223	49.113	1.00 29.66
ATOM	313		VAL		42	-7.189	31.274	50.295	1.00 30.14
MOTA	314		VAL		42	-6.805	33.657	49.611	1.00 28.98
ATOM	315	И	GLN		43	-5.530	29.405	48.566	1.00 29.23
	316	CA	GLN		43	-5.692	27.989	48.247	1.00 28.15
ATOM									
ATOM	317	C	GLN		43	-6.357	27.171	49.356	1.00 31.60
ATOM	318	0	GLN		43	-5.916	27.081	50.506	1.00 30.09
MOTA	319	CB	GLN		43	-4.401	27.337	47.748	1.00 29.76
ATOM	320	CG	GLN	A	43	-4.305	25.877	48.214	1.00 49.25
MOTA	321	CD	GLN	Α	43	-2.920	25.308	48.018	1.00 68.40
MOTA	322	OE1	GLN	A	43	-2.508	25.059	46.882	1.00 65.93
ATOM	323	NE2	GLN	A	43	-2.190	25.118	49.116	1.00 62.52
ATOM	324	N	SER	Α	44	-7.470	26.553	49.027	1.00 25.74
ATOM	325	CA	SER	A	44	-8.159	25.793	50.027	1.00 24.21
MOTA	326	С	SER	A	44	-7.406	24.562	50.434	1.00 31.27
ATOM	327	0	SER		44	-6.701	23.950	49.642	1.00 33.21
ATOM	328	CB	SER		44	-9.542	25.400	49.574	1.00 28.22
ATOM	329	OG	SER		44	-10.143	24.569	50.550	1.00 36.23
ATOM								51.685	1.00 29.25
	330	N	GLN		45	-7.593	24.190		
MOTA	331	CA	GLN		45	-6.964	23.016	52.240	1.00 32.48
MOTA	332	С	GLN		45	-8.027	22.007	52.618	1.00 41.18
ATOM	333	0	GLN		45	-7.757	20.936	53.165	1.00 37.68
MOTA	334	CB	GLN		45	-6.095	23.387	53.451	1.00 35.17
MOTA	335	CG	GLN		45	-5.138	24.525	53.090	1.00 29.17
MOTA	336	CD	GLN	Α	45	-4.197	24.179	51.954	1.00 37.50
ATOM	337	OE1	GLN	A	45	-4.107	24.903	50.939	1.00 44.48
ATOM	338	NE2	GLN	A	45	-3.466	23.083	52.127	1.00 23.35
ATOM	339	N	GLU		46	-9.258	22.387	52.322	1.00 40.69
ATOM	340	CA	GLU		46	-10.391	21.548	52.591	1.00 41.85
ATOM	341	C	GLU		46	-11.311	21.472	51.388	1.00 46.94
ATOM	342	0	GLU		46	-11.146	22.143	50.367	1.00 45.45
MION	J72	J	GHO	A	±0	-71,140	44.143	50.307	1.00 43.43

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ATOM	343	CB	GLU		46	-11.216	21.989	53.827	1.00 42.82
MOTA	344	CG	GLU		46	-10.736	23.256	54.548	1.00 48.14
ATOM	345	CD	GLU		46	-11.469	23.463	55.856	1.00 62.06
ATOM	346		GLU		46	-12.507	24.103	55.957	1.00 64.38
ATOM	347	OE2	GLU		46	-10.880	22.875	56.871	1.00 51.57
ATOM	348	N	ASP		47	-12.306	20.638	51.523	1.00 46.70
ATOM	349	CA	ASP	Α	47	-13.261	20.543	50.464	1.00 48.51
ATOM	350	С	ASP	A	47	-14.408	21.358	50.947	1.00 45.90
ATOM	351	0	ASP	A	47	-14.674	21.368	52.148	1.00 41.55
ATOM	352	CB	ASP	A	47	-13.748	19.104	50.220	1.00 52.32
MOTA	353	CG	ASP	A	47	-12.739	18.258	49.495	1.00 80.62
ATOM	354	OD1	ASP	Α	47	-12.338	18.505	48.364	1.00 77.22
ATOM	355	OD2	ASP	Α	47	-12.330	17.237	50.218	1.00100.00
ATOM	356	N	ASN		48	-15.067	22.044	50.045	1.00 44.45
ATOM	357	CA	ASN		48	-16.209	22.826	50.475	1.00 45.83
ATOM	358	c	ASN		48	-15.875	24.055	51.308	1.00 46.95
ATOM	359	ō	ASN		48	-16.620	24.449	52.219	1.00 45.85
MOTA	360	CB	ASN		48	-17.246	21.959	51.225	1.00 43.60
ATOM	361	CG	ASN		48	-18.653	22.469	51.004	1.00 65.69
ATOM	362		ASN		48	-18.924	23.191	50.027	1.00 68.02
ATOM	363		ASN		48	-19.545	22.123	51.922	1.00 53.94
ATOM	364	N N	LEU		49	-14.758	24.672	51.004	1.00 40.04
ATOM	365	CA	LEU		49	-14.738	25.850	51.741	1.00 35.92
ATOM	366	C	LEU		49		26.909	51.178	1.00 33.32
		0	LEU		49	-15.377		49.998	1.00 35.48
ATOM	367					-15.301	27.241		
ATOM	368	CB	LEU		49	-12.977	26.218	51.556	1.00 34.20
ATOM	369	CG	LEU		49	-12.623	27.492	52.307	1.00 36.68
MOTA	370		LEU		49	-13.000	27.286	53.753	1.00 35.00
ATOM ATOM	371 372	N	LEU ARG		49 50	-11.135 -16.287	27.785 27.411	52.181 51.998	1.00 38.84 1.00 40.21
MOTA	373	CA	ARG		50	-17.242	28.417	51.525	1.00 40.21
ATOM	374	CA	ARG		50	-16.907	29.859	51.901	1.00 47.29
ATOM	375	0	ARG		50	-17.364	30.801	51.263	1.00 47.29
ATOM	376	СВ	ARG		50	-18.644	28.046	51.980	1.00 38.23
ATOM	377	CG	ARG		50		26.547	51.811	1.00 52.44
		CD	ARG		50	-18.911 -20 ⁻ .385	26.171	51.839	1.00 52.44
ATOM ATOM	378 379	NE	ARG		50	-20.835	25.461	50.643	1.00 80.87
ATOM	380	CZ	ARG		50	-20.855	24.727	50.592	1.00100.00
ATOM	381		ARG		50	-22.750	24.727	51.652	1.00100.00
ATOM	382	NH2			50	-22.730	24.373	49.446	1.00100.00
ATOM	383	N	SER		51	-16.102	30.024	52.945	1.00 43.64
ATOM	384	CA	SER		51	-15.714	31.334	53.418	1.00 41.14
ATOM	385	C	SER		51	-14.454	31.283	54.259	1.00 44.29
MOTA	386	0	SER		51	-14.253	30.319	55.016	1.00 46.38
ATOM	387	СВ	SER		51	-16.821	31.863	54.321	1.00 45.40
ATOM	388	OG	SER		51	-16.862	31.143	55.556	1.00 46.27
MOTA	389		LEU		52	-13.623	32.330	54.156	1.00 36.51
ATOM	390	CA	LEU		52	-12.418	32.411	54.964	1.00 36.39
MOTA	391	C	LEU		52	-12.369	33.667	55.852	1.00 30.39
	392	0	LEU		52	-13.113	34.644	55.647	1.00 40.92
ATOM ATOM	393	CB	LEU		52	-11.103	32.143	54.203	1.00 35.84
ATOM ATOM	394 395	CG CD1	LEU LEU		52 52	-10.729 -11.745	33.115 33.042	53.095 51.994	1.00 39.41
ATOM	396		LEU		52 52	-11.745	34.538	53.605	1.00 41.33
ATOM	397	N N	VAL		53	-10.624	34.536	56.859	1.00 37.98
ATOM	398	CA	VAL		53	-11.491	34.834	57.737	1.00 37.38
ATOM	399	CA	VAL		53	-9.933	35.384	57.550	1.00 34.43
ATOM	400	0	VAL		53	-8.975	34.606	57.511	1.00 31.66
014	100	•	V - 111	63	JJ	0.575	34.300	J JII	1.00 40.02

3.0014	407	an.	173.7			21 (01	24 507	59.226	1.00 37.95
ATOM	401	CB	VAL		53	-11.601	34.597	59.989	1.00 37.38
ATOM	402		VAL		53	-11.580	35.929		
ATOM	403		VAL		53	-12.946	33.922	59.419	1.00 37.84
MOTA	404	N	LEU		54	-9.829	36.705	57.418	1.00 23.95
MOTA	405	CA	LEU		54	-8.558	37.365	57.270	1.00 22.89
MOTA	406	C	LEU	A	54	-8.395	38.285	58.470	1.00 29.33
MOTA	407	0	LEU	Α	54	-9.388	38.613	59.138	1.00 25.65
ATOM	408	CB	<b>TEA</b>	A	54	-8.515	38.242	56.019	1.00 23.57
MOTA	409	CG	LEU	A	54	-8.458	37.469	54.700	1.00 32.01
ATOM	410	CD1	LEU	A	54	-8.345	38.475	53.541	1.00 31.66
ATOM	411	CD2	LEU	Α	54	-7.271	36.505	54.684	1.00 24.96
ATOM	412	N	ASP	Α	55	-7.145	38.698	58.732	1.00 28.72
ATOM	413	CA	ASP		55	-6.830	39.616	59.831	1.00 24.54
ATOM	414	C	ASP		55	-6.845	41.043	59.289	1.00 22.50
ATOM	415	0	ASP		55	-6.460	41.312	58.173	1.00 21.41
ATOM	416	СВ	ASP		55	-5.446	39.344	60.500	1.00 25.99
		CG	ASP		55	-5.298	38.132	61.418	1.00 23.16
ATOM	417								1.00 23.10
ATOM	418		ASP		55	-5.887	37.985	62.470	
ATOM	419		ASP		55	-4.408	37.248	60.991	1.00 24.58
MOTA	420	N	THR		56	-7.309	41.977	60.109	1.00 21.37
ATOM	421	CA	THR		56	-7.346	43.373	59.748	1.00 22.34
MOTA	422	С	THR		56	-7.167	44.196	61.019	1.00 25.71
ATOM	423	0	THR	A	56	-7.573	43.726	62.088	1.00 26.22
MOTA	424	CB	THR	Α	56	-8.727	43.717	59.133	1.00 34.75
ATOM	425	OG1	THR	Α	56	-9.668	43.936	60.183	1.00 35.02
ATOM	426	CG2	THR	Α	56	-9.210	42.578	58.241	1.00 40.12
MOTA	427	N	LYS	Α	57	-6.598	45.405	60.918	1.00 20.41
MOTA	428	CA	LYS	A	57	-6.478	46.239	62.114	1.00 19.63
ATOM	429	С	LYS	Α	57	-6.656	47.686	61.717	1.00 21.21
ATOM	430	0	LYS	A	57	-5.851	48.222	60.995	1.00 19.18
ATOM	431	CB	LYS	A	57	-5.182	45.983	62.827	1.00 21.05
ATOM	432	CG	LYS	Α	57	-5.137	46.424	64.271	1.00 26.38
MOTA	433	CD	LYS	Α	57	-3.713	46.855	64.626	1.00 44.32
ATOM	434	CE	LYS	A	57	-3.331	46.750	66.099	1.00 61.77
ATOM	435	NZ	LYS		57	-1.996	47.313	66.396	1.00 53.68
ATOM	436	N	ASP		58	-7.739	48.322	62.162	1.00 23.32
MOTA	437	CA	ASP		58	-7.952	49.707	61.772	1.00 22.42
ATOM	438	С	ASP		58	-7.930	49.875	60.266	1.00 27.00
ATOM	439	0	ASP		58	-7.376	50.808	59.668	1.00 24.72
ATOM	440	СВ	ASP		58	-6.971	50.657	62.459	1.00 24.48
ATOM	441	CG	ASP		58	-7.104	50.494	63.928	1.00 36.08
ATOM	442	OD1			58	-8.187	50.358	64.474	1.00 38.70
	443		ASP		58	-5,944	50.459	64.535	1.00 37.78
ATOM			LEU		59	-8.530	48.936	59.611	1.00 26.57
ATOM	444	N							1.00 26.97
ATOM	445	CA	LEU		59	-8.545 0.046	49.049	58.177 57.707	1.00 20.97
MOTA	446	C	LEU		59	-9.946	49.473		1.00 30.09
ATOM	447	0	LEU		59	-10.971	49.074	58.245	
ATOM	448	CB	LEU		59	-8.132	47.698	57.479	1.00 26.65
ATOM	449	CG	TEA		59	-6.639	47.356	57.443	1.00 24.34
MOTA	450		LEU		59	-6.445	46.049	56.687	1.00 25.03
MOTA	451		LEU		59	-5.864	48.443	56.722	1.00 21.60
MOTA	452	N	THR		60	-9.982	50.278	56.673	1.00 29.73
MOTA	453	CA	THR		60	-11.244	50.685	56.091	1.00 30.53
MOTA	454	C	THR	Α	60	-11.433	49.876	54.791	1.00 34.07
MOTA	455	0	THR	Α	60	-10.634	49.978	53.813	1.00 29.18
ATOM	456	CB	THR	Α	60	-11.282	52.198	55.881	1.00 38.77
ATOM	457	OG1	THR	A	60	-11.898	52.759	57.020	1.00 55.62
ATOM	458	CG2	THR	A	60	-12.086	52.528	54.635	1.00 42.40

ATOM	459	N	ILE	A	61	-12.465	49.042	54.808	1.00 30.99
ATOM	460	CA	ILE	A	61	-12.758	48.181	53.667	1.00 33.20
ATOM	461	C	ILE	A	61	-13.821	48.708	52.741	1.00 38.63
ATOM	462	0	ILE	Α	61	-14.987	48.694	53.102	1.00 34.56
ATOM	463	CB	ILE	Α	61	-13.230	46.809	54.087	1.00 37.17
ATOM	464	CG1	ILE	Α	61	-12.407	46.229	55.252	1.00 37.33
MOTA	465		ILE		61	-13.229	45.905	52.850	1.00 39.90
ATOM	466		ILE		61	-10.929	46.003	54.937	1.00 41.79
ATOM	467	N	GLU		62	-13.407	49.117	51.548	1.00 42.13
ATOM	468	CA	GLU		62	-14.330	49.624	50.543	1.00 45.12
ATOM	469	C	GLU		62	-15.208	48.498	49.976	1.00 48.64
MOTA	470	0	GLU		62	-16.442	48.537	49.984	1.00 49.46
ATOM	471	СВ	GLU		62	-13.550	50.305	49.397	1.00 47.88
MOTA	472	CG	GLU		62	-14.390	51.345	48.620	1.00 73.90
	473	CD	GLU		62	-15.062	50.839	47.363	1.00100.00
MOTA			GLU		62	-16.062	50.839	47.303	1.00100.00
MOTA	474				62		51.296	46.267	1.00100.00
ATOM	475	OE2				-14.492			1.00100.00
MOTA	476	N	LYS		63	-14.551	47.459	49.483	1.00 40.80
ATOM	477	CA	LYS		63	-15.283	46.342	48.931	
ATOM	478	C	LYS		63	-14.377	45.153	48.678	1.00 34.27
ATOM	479	0	LYS		63	-13.167	45.306	48.512	1.00 29.28
ATOM	480	CB	LYS		63	-15.891	46.760	47.601	1.00 32.16
MOTA	481	CG	LYS		63	-14.816	47.067	46.573	1.00 22.38
ATOM	482	CD	LYS		63	~15.373	47.148	45.162	1.00 32.02
ATOM	483	CE	LYS		63	-14.778	48.257	44.308	1.00 33.99
ATOM	484	NZ	LYS		63	-13.723	47.814	43.365	1.00 52.00
ATOM	485	N	VAL		64	-15.001	43.985	48.614	1.00 36.16
ATOM	486	CA	VAL	A	64	-14.292	42.751	48.306	1.00 39.33
ATOM	487	С	VAL		64	-14.792	42.157	46.993	1.00 43.15
MOTA	488	0	VAL	A	64	-15.971	41.822	46.859	1.00 38.90
ATOM	489	CB	VAL		64	-14.401	41.692	49.370	1.00 42.66
ATOM	490		VAL		64	-13.465	40.566	48.928	1.00 42.11
ATOM	491	CG2	VAL		64	-14.028	42.276	50.730	1.00 40.96
ATOM	492	N	VAL		65	-13.892	42.023	46.036	1.00 40.44
MOTA	493	CA	VAL		65	-14.287	41.505	44.739	1.00 37.94
ATOM	494	C	VAL	Α	65	-13.708	40.162	44.350	1.00 35.48
ATOM	495	0	VAL	Α	65	-12.511	39.915	44.474	1.00 31.12
MOTA	496	CB	VAL	A	65	-14.047	42.540	43.647	1.00 39.44
MOTA	497	CG1	VAL	A	65	-14.238	41.899	42.287	1.00 38.78
ATOM	498	CG2	VAL		65	-15.024	43.692	43.844	1.00 38.69
ATOM	499	N	ILE	Α	66	-14.599	39.316	43.847	1.00 32.12
ATOM	500	CA	ILE	Α	66	-14.223	38.010	43.372	1.00 31.54
MOTA	501	C	ILE	A	66	-14.825	37.784	41.993	1.00 37.42
ATOM	502	0	ILE	Α	66	-16.033	37.896	41.794	1.00 34.45
MOTA	503	CB	ILE	A	66	-14.602	36.884	44.313	1.00 32.82
MOTA	504	CG1	ILE	A	66	-13.945	37.071	45.664	1.00 30.69
ATOM	505	CG2	ILE	A	66	-14.117	35.581	43.703	1.00 32.94
ATOM	506	CD1	ILE	A	66	-14.478	36.125	46.731	1.00 25.31
ATOM	507	N	ASN	A	67	-13.968	37.498	41.027	1.00 38.89
ATOM	508	CA	ASN	A	67	-14.426	37.278	39.668	1.00 39.33
MOTA	509	С	ASN		67	-15.373	38.366	39.223	1.00 42.51
ATOM	510	0	ASN	A	67	-16.525	38.092	38.906	1.00 39.37
MOTA	511	CB	ASN		67	-15.095	35.904	39.501	1.00 35.20
ATOM	512	CG	ASN		67	-14.141	34.765	39.862	1.00 61.24
MOTA	513		ASN		67	-12.900	34.842	39.669	1.00 47.44
ATOM	514		ASN		67	-14.717	33.706	40.421	1.00 42.22
ATOM	515	N	GLY		68	-14.848	39.590	39.237	1.00 39.48
ATOM	516	CA	GLY		68	-15.527	40.809	38.826	1.00 37.68

ATOM	517	C	GLY	A	68	-16.763	41.167	39.612	1.00 39.81
ATOM	518	0	GLY	A	68	-17.380	42.197	39.398	1.00 43.86
ATOM	519	N	GLN	A	69	-17.173	40.333	40.513	1.00 33.09
ATOM	520	CA	GLN		69	-18.351	40.732	41.230	1.00 34.40
ATOM	521	C	GLN		69	-17.958	41.090	42.626	1.00 47.27
ATOM	522	0	GLN		69	-16.841	40.790	43.059	1.00 49.22
ATOM	523	СВ	GLN		69	-19.416	39.624	41.285	1.00 36.28
MOTA	524	CG	GLN		69	-19.908	39,174	39.893	1.00 42.32
MOTA	525	CD	GLN		69	-20.467	40,321	39.111	1.00 54.27
ATOM	526		GLN		69	-19.968	40.635	38.025	1.00 50.67
ATOM	527	NE2			69	-21.462	40.989	39.696	1.00 59.09
ATOM	528	N	GLU		70	-18.898	41.715	43.318	1.00 45.54
MOTA	529	CA	GLU		70	-18.697	42.105	44.682	1.00 43.70
	530	C	GLU		70	-19.236	40.986	45.548	1.00 50.02
ATOM			GLU		70	-20.200	40.332	45.162	1.00 55.78
MOTA	531	0				-19.351			1.00 43.37
ATOM	532	CB	GLU		70		43.459	44.985	
ATOM	533	CG	GLU		70	-18.528	44.659	44.476	1.00 45.21
MOTA	534	CD	GLU		70	-19.093	45.975	44.964	1.00 80.18
ATOM	535		GLU		70	-19.937	46.064	45.861	1.00 51.66
ATOM	536	OE2			70	-18.594	47.005	44.319	1.00 79.05
ATOM	537	N	VAL		71	-18.611	40.735	46.695	1.00 37.89
ATOM	538	CA	VAL		71	-19.067	39.666	47.551	1.00 33.11
ATOM	539	C	VAL		71	-19.420	40.129	48.963	1.00 35.14
MOTA	540	0	VAL		71	-19.165	41.257	49.380	1.00 36.32
ATOM	541	CB	VAL		71	-18.147	38.422	47.497	1.00 33.37
MOTA	542		VAL		71	-17.772	38.119	46.050	1.00 31.13
MOTA	543		VAL		71	-16.866	38.594	48.326	1.00 31.47
ATOM	544	N	LYS		72	-20.016	39.247	49.696	1.00 31.08
ATOM	545	CA	LYS		72	-20.385	39.549	51.037	1.00 34.55
MOTA	546	C	LYS		72	-19.155	39,360	51.922	1.00 46.45
MOTA	547	0	LYS		72	-18.344	38.455	51.678	1.00 44.93
ATOM	548	CB	LYS		72	-21.484	38,586	51.447	1.00 37.84
MOTA	549	CG	LYS		72	-22.553	39.153	52.362	1.00 60.35
ATOM	550	CD	LYS		72	-22.630	38.370	53.660	1.00 78.18
ATOM	551	CE	LYS		72	-21.389	38.589	54.500	1.00 92.99
MOTA	552	NZ	LYS		72	-20.860	39.935	54.295	1.00100.00
MOTA	553	N	TYR		73	-19.051	40.242	52.930	1.00 45.41
MOTA	554	CA	TYR		73	-18.006	40.276	53.941	1.00 45.13
ATOM	555	C	TYR		73	-18.474	41.017	55.167	1.00 47.06
ATOM	556	0	TYR		73	-19.231	41.979	55.089	1.00 45.05
ATOM	557	CB	TYR		73	-16.720	40.932	53.488	1.00 44.74
MOTA	558	CG	TYR		73	-16.753	42.438	53.504	1.00 47.77
MOTA	559	CD1	TYR		73	-16.507		54.674	1.00 50.00
MOTA	560		TYR		73	-17.005	43.133	52.306	1.00 49.34
ATOM	561		TYR		73	-16.519	44.565	54.662	1.00 52.06
ATOM	562	CE2			73	-16.967	44.529	52.284	1.00 50.56
MOTA	563	CZ	TYR		73	-16.684	45.235	53.452	1.00 60.67
ATOM	564	OH	TYR		73	-16.859	46.597	53.418	1.00 66.04
MOTA	565	N	ALA		74	-17.993	40.557	56.289	1.00 40.33
ATOM	566	CA	ALA		74	-18.323	41.138	57.545	1.00 39.85
ATOM	567	C	ALA		74	-17.068	41.281	58.412	1.00 47.89
ATOM	568	0	ALA		74	~16.147	40.464	58.346	1.00 46.81
ATOM	569	CB	ALA		74	-19.346	40.262	58.237	1.00 39.87
ATOM	570	N	TEA		75	-17.055	42.339	59.227	1.00 42.79
ATOM	571	CA	FEA	A	75	~15.980	42.650	60.148	1.00 38.94
MOTA	572	C	LEU	A	75	-16.416	42.342	61.561	1.00 44.65
ATOM	573	0	LEU		75	-17.388	42.895	62.068	1.00 48.50
ATOM	574	CB	LEU	A	75	-15.667	44.141	60.115	1.00 37.30

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MOTA	575	CG	LEU		75				
ATOM	576		LEU		75 	-14.476	46.031	59.085	1.00 47.51
MOTA	577		LEU		75	-13.691	43.666	58.677	1.00 46.54
MOTA	578	N	GLY		76	-15.718	41.474	62.242	1.00 39.16
ATOM	579	CA	GLY	A	76	-16.145	41.228	63.597	1.00 36.77
ATOM	580	C	GLY	Α	76	-15.652	42.360	64.461	1.00 31.43
ATOM	581	0	GLY	A	76	-14.997	43.290	63.969	1.00 26.07
ATOM	582	N	GLU	A	77	-15.973	42.281	65.736	1.00 32.78
ATOM	583	CA	GLU	Α	77	-15.539	43.318	66.645	1.00 34.78
ATOM	584	C	GLU		77	-14.050	43.214	66.886	1.00 38.63
ATOM	585	o	GLU		77	-13.431	42.176	66.641	1.00 34.85
ATOM	586	CB	GLU		77	-16.337	43.338	67.966	1.00 37.18
ATOM	587	CG	GLU		77	-16.506	41.956	68.643	1.00 56.65
					77				1.00100.00
ATOM	588	CD	GLU			-16.316	41.990	70.151	
ATOM	589	OE1			77	-16.789	42.859	70.877	1.00100.00
MOTA	590		GLU		77	-15.603	40.975	70.597	1.00100.00
MOTA	591	N	ARG		78	-13.483	44.312	67.343	1.00 37.73
MOTA	592	CA	ARG		78	-12.068	44.336	67.624	1.00 37.11
MOTA	593	C	ARG		78	-11.709	43.545	68.889	1.00 39.61
MOTA	594	0	ARG	A	78	-12.422	43.549	69.906	1.00 36.40
ATOM	595	CB	ARG	Α	78	-11.522	45.744	67.693	1.00 33.62
ATOM	596	CG	ARG	A	78	-9.991	45.807	67.699	1.00 34.93
ATOM	597	CD	ARG	Α	78	-9.516	47.207	68.040	1.00 32.03
ATOM	5 <i>9</i> 8	NE	ARG	Α	78	-8.083	47.397	68.058	1.00 33.71
ATOM	599	CZ	ARG	A	78	-7.459	48.239	67.241	1.00 53.03
ATOM	600	NH1	ARG	A	78	-8.114	48.941	66.314	1.00 39.56
ATOM	601		ARG		78	-6.139	48.361	67.337	1.00 53.05
MOTA	602	N	GLN		79	-10.576	42.842	68.795	1.00 33.34
MOTA	603	CA	GLN		79	-10.044	42.052	69.881	1.00 32.25
ATOM	604	C	GLN		79	-8.708	42.662	70.221	1.00 36.49
ATOM	605	0	GLN		79	-7.651	42.164	69.834	1.00 37.41
ATOM	606	CB	GLN		79	-9.906	40.580	69.472	1.00 37.41
ATOM	607	CG	GLN GLN		79 70	-11.263	39.972	69.092	1.00 31.70
ATOM	608	CD			79 70	-11.143	38.511	68.713	1.00 62.24
ATOM	609		GLN		79	-10.234	37.819	69.182	1.00 64.13
ATOM	610	NE2	GLN		79	-12.046	38.033	67.862	1.00 56.77
ATOM	611	N	SER		80	-8.787	43.794	70.893	1.00 30.40
ATOM	612	CA	SER		80	-7.617	44.551	71.284	1.00 27.48
MOTA	613	С	SER		80	-6.535	44.592	70.257	1.00 29.91
MOTA	614	0	SER		80	-6.758	45.054	69.140	1.00 28.75
MOTA	615	CB	SER		80	-7.066	44.252	72.655	1.00 27.52
MOTA	616	OG	SER		80	-7.173	42.874	72.863	1.00 44.76
ATOM	617	N	TYR	Α	81	-5.350	44.133	70.671	1.00 27.38
ATOM	618	ÇA	TYR	A	81	-4.162	44.180	69.820	1.00 25.29
ATOM	619	С	TYR	Α	81	-4.196	43.286	68.604	1.00 23.60
MOTA	620	0	TYR	Α	81	-3.389	43.435	67.710	1.00 26.12
ATOM	621	CB	TYR	A	81	-2.861	43.992	70.632	1.00 23.78
ATOM	622	CG	TYR	A	81	-2.849	42.621	71.190	1.00 21.01
ATOM	623	CD1	TYR	Α	81	-3.374	42.361	72.450	1.00 20.45
ATOM	624		TYR		81	-2.387	41.569	70.406	1.00 23.13
ATOM	625		TYR		81	-3.402	41.064	72.948	1.00 18.45
MOTA	626		TYR		81	-2.426	40.263	70.885	1.00 24.91
ATOM	627	CZ	TYR		81	-2.929	40.017	72.162	1.00 26.97
ATOM	628	OH	TYR		81	-2.960	38.731	72.652	1.00 35.08
ATOM	629	N	LYS		82	-5.125	42.370	68.568	1.00 33.08
	023	7.4	מזת						
	630	CZ	1.370	λ.		בר סטר	47 440	<i>[7 4</i> 7 7	1 AA 10 CF
ATOM ATOM	630 631	CA	LYS		82 82	-5.225 -5.948	41.448	67.433	1.00 19.65
ATOM ATOM ATOM	630 631 632	CA C O	LYS LYS	A	82 82 82	-5.225 -5.948 -5.821	41.448 42.036 41.545	67.433 66.232 65.107	1.00 19.65 1.00 26.75 1.00 26.09

2.000	633	CD	LYS	7	82	-5.929	40.217	67.888	1.00 19.96
ATOM		CB			82	-5.039	39.427	68.808	1,00 39.72
ATOM	634	CG	LYS			-5.610	38.058	69.103	1.00 45.35
ATOM	635	CD	LYS		82				1.00 52.66
MOTA	636	CE	LYS		82	-5.868	37.809	70.577	_
MOTA	637	NZ	LYS		82	-6.016	36.375	70.879	1.00 51.38
MOTA	638	N	GLY	A	83	-6.698	43.114	66.482	1.00 25.62
MOTA	639	CA	GLY	A	83	-7.465	43.786	65.441	1.00 24.64
ATOM	640	C	GLY	A	83	-8.857	43.145	65.324	1.00 26.15
MOTA	641	0	GLY	A	83	-9.348	42.515	66.255	1.00 24.12
ATOM	642	N	SER	A	84	-9.463	43.273	64.136	1.00 27.22
ATOM	643	CA	SER	A	84	-10.806	42.770	63.829	1.00 27.17
ATOM	644	C	SER		84	-10.815	41.744	62.720	1.00 29.72
ATOM	645	0	SER		84	-10.237	41.933	61.649	1.00 30.39
ATOM	646	CB	SER		84	-11.708	43.929	63.377	1.00 31.94
	647	OG	SER		84	-11.719	44.976	64.344	1.00 42.05
ATOM			PRO		85	-11.513	40.667	62.979	1.00 24.61
ATOM	648	N				-11.640	39.590	62.017	1.00 25.06
ATOM	649	CA	PRO		85			60.819	1.00 23.00
ATOM	650	C	PRO		85	-12.480	40.005		
MOTA	651	0	PRO		85	-13.536	40.622	60.995	1.00 31.19
MOTA	652	CB	PRO		85	-12.404	38.469	62.736	1.00 24.61
MOTA	653	CG	PRO		85	-12.959	39.049	64.014	1.00 30.62
MOTA	654	CD	PRO	A	85	-12.314	40.423	64.199	1.00 26.23
MOTA	655	N	MET	A	86	-12.019	39.632	59.623	1.00 28.27
ATOM	656	CA	MET	Α	86	-12.754	39.924	58.411	1.00 27.27
ATOM	657	C	MET	A	86	-13.227	38.650	57.699	1.00 32.93
ATOM	658	0	MET	A	86	-12.438	37.997	57.038	1.00 27.77
ATOM	659	CB	MET	A	86	-11.930	40.743	57.451	1.00 27.52
ATOM	660	CG	MET	A	86	-12.756	41.222	56.274	1.00 30.43
ATOM	661	SD	MET	A	86	-11.679	41.978	55.050	1.00 37.30
ATOM	662	CE	MET	A	86	-12.815	42.248	53.681	1.00 37.61
ATOM	663	N	GLU		87	-14.507	38.295	57.832	1.00 34.14
ATOM	664	CA	GLU		87	-15.060	37.093	57.184	1.00 36.06
ATOM	665	C	GLU		87	-15.538	37.367	55.766	1.00 39.45
ATOM	666	ō	GLU		87	-16.366	38.250	55.586	1.00 41.63
MOTA	667	СВ	GLU		87	-16.211	36.499	58.003	1.00 37.41
ATOM	668	CG	GLU		87	-16.540	35.036	57.655	1.00 43.37
ATOM	669	CD	GLU		87	-17.445	34.371	58.657	1.00 60.02
MOTA	670		GLU		87	-18.629	34.637	58.785	1.00 83.59
		OE2	GLU		87	-16.827	33.467	59.375	1.00 74.01
ATOM ATOM	671 672	N N	ILE		88	-15.000	36.608	54.788	1.00 74.01
ATOM	673	CA	ILE		88	-15.343	36.698	53.359	1.00 33.18
		CA					35.489	52.896	1.00 42.28
ATOM	674	-	ILE		88	-16.170 -15.895	34.352	53.254	1.00 42.28
ATOM	675	0	ILE		88				1.00 43.81
ATOM	676	CB	ILE		88	-14.122	36.878	52.475	
ATOM	677	CG1			88	-13.251	38.003	53.020	1.00 31.03
ATOM	678		ILE		88	-14.525	37.171	51.035	1.00 31.15
ATOM	679		ILE		88	-12.088	38.331	52.096	1.00 33.21
MOTA	680	N	SER		89	-17.222	35.723	52.116	1.00 41.90
MOTA	681	CA	SER		89	-18.072	34.635	51.633	1.00 40.20
MOTA	682	C	SER		89	-17.689	34.229	50.234	1.00 43.89
MOTA	683	0	SER		89	-17.731	35.037	49.296	1.00 40.79
MOTA	684	CB	SER	A	89	-19.557	34.959	51.685	1.00 43.23
ATOM	685	OG	SER	A	89	-20.042	34.675	52.986	1.00 57.92
ATOM	686	N	LEU	A	90	-17.298	32.967	50.099	1.00 41.94
MOTA	687	CA	LEU	A	90	-16.945	32.481	48.793	1.00 41.32
MOTA	688	С	LEU		90	-18.258	32.175	48.106	1.00 41.86
ATOM	689	0	LEU		90	-19.186	31.608	48.692	1.00 41.35
ATOM	690	СВ	PEA		90	-16.014	31.252	48.856	1.00 41.25
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ATOM	691	CG	LEU	Δ	90	-14.827	31.484	49.781	1.00 43.31
ATOM	692		LEU		90	-14.050	30.182	50.020	1.00 40.39
ATOM	693		LEU		90	-13.940	32.569	49.162	1.00 40.88
ATOM	694	N	PRO		91	-18.337	32.612	46.887	1.00 40.52
MOTA	695	CA	PRO		91	-19.516	32.434	46.056	1.00 43.11
MOTA	696	C	PRO		91	-19.516	31.058	45.401	1.00 51.36
MOTA	697	0	PRO	Α	91	-20.363	30.753	44.576	1.00 52.06
MOTA	698	CB	PRO	Α	91	-19.359	33.470	44.942	1.00 43.83
ATOM	699	CG	PRO	Α	91	-17.883	33.867	44.915	1.00 48.09
ATOM	700	CD	PRO	Α	91	-17.268	33.373	46.217	1.00 41.44
ATOM	701	N	ILE	Α	92	-18.516	30.261	45.767	1.00 50.02
ATOM	702	CA	ILE	Α	92	-18.325	28.924	45.259	1.00 50.50
ATOM	703	C	ILE	A	92	-17.525	28.128	46.242	1.00 47.69
MOTA	704	0	ILE	Α	92	-16.416	28.497	46.564	1.00 46.80
ATOM	705	CB	ILE		92	-17.492	28.924	44.001	1.00 55.84
ATOM	706	CG1			92	-18.372	29.135	42.791	1.00 58.16
ATOM	707	CG2	ILE		92	-16.776	27.584	43.884	1.00 59.08
MOTA	708		ILE		92	-17.568	29.038	41.493	1.00 83.51
	709	N	ALA		93				
ATOM						-18.047	27.023	46.683	1.00 40.78
ATOM	710	CA	ALA		93	-17.280	26.257	47.599	1.00 38.66
ATOM	711	C	ALA		93	-16.066	25.735	46.892	1.00 45.36
ATOM	712	0	ALA		93	-16.141	25.391	45.720	1.00 47.87
ATOM	713	CB	ALA		93	-18.114	25.149	48.205	1.00 38.35
ATOM	714	N	LEU		94	-14.956	25.716	47.630	1.00 42.52
ATOM	715	CA	LEU	Α	94	-13.652	25.233	47.181	1.00 41.33
ATOM	716	С	LEU	Α	94	-13.330	23.900	47.814	1.00 46.96
ATOM	717	0	LEU	Α	94	-13.719	23.618	48.948	1.00 45.93
ATOM	718	CB	LEŲ	A	94	-12.515	26.182	47.571	1.00 39.52
ATOM	719	CG	LEU	Α	94	-12.515	27.449	46.748	1.00 44.05
ATOM	720	CD1	LEU	A	94	-11.153	28.133	46.829	1.00 44.88
ATOM	721	CD2	LEU	Α	94	-12.843	27.115	45.305	1.00 45.42
ATOM	722	N	SER	Α	95	-12.604	23.083	47.074	1.00 44.42
ATOM	723	CA	SER	A	95	-12.221	21.807	47.591	1.00 43.44
ATOM	724	C	SER	A	95	-10.728	21.776	47.719	1.00 36.96
ATOM	725	0	SER	Α	95	-10.038	22.639	47.187	1.00 33.14
ATOM	726	CB	SER	A	95	-12.739	20.704	46.696	1.00 51.13
MOTA	727	OG	SER	Α	95	-14.083	20.459	47.074	1.00 60.97
ATOM	728	N	LYS		96	-10.240	20.779	48.407	1.00 33.03
ATOM	729	CA	LYS		96	-8.818	20.694	48.557	1.00 33.15
ATOM	730	C	LYS		96	-8.122	21.204	47.321	1.00 37.16
ATOM	731	o	LYS		96	-8.514	20.922	46.188	1.00 38.12
ATOM	732	СВ	LYS		96	-8.348		48.861	1.00 34.42
ATOM	733	CG	LYS		96	-8.583	18.910	50.298	1.00 57.96
MOTA	734	CD	LYS		96	-8.422	17.423	50.553	1.00 37.50
ATOM	735	CE	LYS		96	-9.475	16.882	51.512	1.00 73.34
	736	NZ	LYS		96			51.512	1.00100.00
ATOM						-9.837	15.475		
MOTA	737	N	ASN			-7.069	21.958	47.573	1.00 29.05
MOTA	738	CA	ASN		97	-6.213	22.528	46.568	1.00 25.85
ATOM	739	C	ASN		97	-6.783	23.479	45.576	1.00 31.84
MOTA	740	0	ASN		97	-6.064	23.909	44.682	1.00 33.02
MOTA	741	СВ	ASN		97	-5.166	21.572	46.006	1.00 33.23
MOTA	742	CG	asn		97	-4.289	21.018	47.135	1.00 55.19
MOTA	743		asn		97	-4.009	19.823	47.186	1.00 56.15
MOTA	744	ND2	asn	A	97	-3.873	21.867	48.073	1.00 43.36
MOTA	745	N	GLN	A	98	-8.053	23.835	45.730	1.00 32.99
ATOM	746	CA	GLN	A	98	-8.611	24.798	44.792	1.00 35.56
MOTA	747	C	GLN	A	98	-8.259	26.220	45.204	1.00 40.34
ATOM	748	0	GLN	Α	98	-8.208	26.541	46.381	1.00 37.21

ATOM	749	CB	GLN	Α	98	-10.111	24.610	44.555	1.00 38.17
MOTA	750	CG	GLN	Α	98	-10.446	23.220	43.974	1.00 47.37
ATOM	751	CD	GLN		98	-11.869	23.144	43.480	1.00 68.06
ATOM	752		GLN		98	-12.676	22.343	43.981	1.00 68.25
ATOM	753		GLN		98	-12.184	24.014	42.527	1.00 58.46
			GLU		99	-8.007	27.049	44.206	1.00 42.57
ATOM	754	N							
MOTA	755	CA	GLU		99	-7.630	28.442	44.380	1.00 43.65
MOTA	756	С	GLU		99	-8.649	29.427	43.778	1.00 47.15
MOTA	757	0	GLU		99	-9.262	29.166	42.734	1.00 44.38
ATOM	758	CB	GLU		99	-6.229	28.688	43.745	1.00 44.65
MOTA	759	CG	GLU	Α	99	-5.210	27.549	44.026	1.00 62.98
ATOM	760	CD	GLU	А	99	-3.804	27.766	43.496	1.00 92.15
ATOM	761	OE1	GLU	Α	99	-3.299	28.867	43.338	1.00100.00
MOTA	762	OE2	GLU	A	99	-3.191	26.625	43.252	1.00 78.70
ATOM	763	N	ILE	Α	100	-8.801	30.565	44.468	1.00 41.83
MOTA	764	CA	ILE			-9.632	31.698	44.080	1.00 38.88
ATOM	765	С	ILE			-8.784	32.895	44.373	1.00 43.54
MOTA	766	0	ILE			-7.812	32.830	45.135	1.00 42.91
ATOM	767	СВ	ILE			-10.879	31.971	44.904	1.00 42.18
MOTA	768		ILE			-10.849	31.355	46.271	1.00 47.13
		CG2	ILE				31.875	44.204	1.00 41.40
ATOM	769					-12.225			
MOTA	770		ILE			-10.493	32.395	47.331	1.00 74.72
ATOM	771	N	VAL			-9.156	34.001	43.784	1.00 39.29
MOTA	772	CA	VAL			-8.461	35.229	44.067	1.00 37.27
MOTA	773	C	VAL			-9.435	36.255	44.626	1.00 39.62
MOTA	774	0	VAL			-10.516	36.464	44.098	1.00 38.28
MOTA	775	CB	VAL	Α	101	-7.425	35.723	43.080	1.00 36.91
ATOM	776	CG1	VAL	Α	101	-7.497	34.980	41.770	1.00 34.64
ATOM	777	CG2	VAL	A	101	-7.482	37.237	42.939	1.00 35.34
MOTA	778	N	ILE	Α	102	-9.078	36.828	45.749	1.00 31.68
MOTA	779	CA	ILE	A	102	-9.924	37.777	46.403	1.00 28.22
ATOM	780	C	ILE	А	102	-9.328	39.135	46.284	1.00 31.14
ATOM	781	0	ILE	Α	102	-8.173	39.344	46.618	1.00 31.20
ATOM	782	CB	ILE			-10.086	37.348	47.841	1.00 30.22
MOTA	783	CG1				-10.432	35.863	47.821	1.00 30.27
ATOM	784	CG2	ILE			-11.214	38.112	48.495	1.00 30.53
ATOM	785	CD1				-10.807	35.275	49.187	1.00 36.83
ATOM	786	N	GLU			-10.087	40.073	45.761	1.00 26.48
ATOM	787	CA	GLU			-9.510	41.390	45.655	1.00 30.38
ATOM	788	C	GLU			-10.196	42.340	46.596	1.00 38.06
ATOM	789	o	GLU			-11.400	42.583	46.488	1.00 39.31
	790	CB	GLU			-9.496	41.944	44.256	1.00 31.96
ATOM							43.403	44.237	1.00 41.76
ATOM	791	CG	GLU			-9.063			
ATOM	792	CD	GLU			-9.594	44.045	43.003	1.00 80.28
ATOM	793		GLU			-10.653	44.658	42.976	1.00 97.93
ATOM	794		GLU			-8.842	43.798	41.957	1.00 70.69
ATOM	795	N			104	-9.409	42.831	47.536	1.00 33.55
ATOM	796	CA	IFE			-9.900	43.716	48.562	1.00 30.57
MOTA	797	C	ILE			-9.417	45.121	48.376	1.00 32.37
MOTA	798	0	ILE	A	104	-8.209	45.395	48.262	1.00 28.32
MOTA	799	CB	ILE	A	104	-9.522	43.227	49.955	1.00 33.68
MOTA	800	CG1	ILE	A	104	-9.880	41.763	50.117	1.00 31.76
ATOM	801	CG2	ILE	Α	104	-10.221	44.054	51.024	1.00 32.15
MOTA	802	CD1	ILE	A	104	-9.097	41.073	51.227	1.00 34.97
ATOM	803	N	SER			-10.433	45.980	48.336	1.00 35.99
ATOM	804	CA	SER			-10.304	47.420	48.202	1.00 37.06
ATOM	805	C	SER			-10.231	47.965	49.624	1.00 32.66
ATOM	806	0	SER			-11.184	47.854	50.409	1.00 27.10
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MOTA	807	CB	SER	A	105	-11.479	48.007	47.438	1.00 41.57
MOTA	808	OG	SER	A	105	-11.142	48.056	46.066	1.00 42.85
ATOM	809	N	PHE	A	106	-9.069	48.495	49.970	1.00 26.79
MOTA	810	CA	PHE	Α	106	-8.932	48.950	51.316	1.00 24.44
ATOM	811	C	PHE	A	106	-8.247	50.298	51.442	1.00 27.41
MOTA	812	0	PHE	Α	106	-7.592	50.835	50.512	1.00 23.66
MOTA	813	CB	PHE	Α	106	-8.098	47.870	52.069	1.00 25.82
MOTA	814	CG	PHE	A	106	-6.659	47.899	51.602	1.00 26.84
MOTA	815	CD1	PHE	A	106	-6.279	47.176	50.473	1.00 29.09
MOTA	816	CD2	PHE	A	106	-5.690	48.683	52.244	1.00 26.96
MOTA	817	CE1	PHE	Α	106	-4.959	47.223	50.019	1.00 30.72
ATOM	818	CE2	PHE	A	106	-4.371	48.760	51.788	1.00 27.84
ATOM	819	CZ	PHE	Α	106	-4.003	48.008	50.670	1.00 27.74
ATOM	820	N	GLU	Α	107	-8.390	50.814	52.669	1.00 27.81
MOTA	821	CA	GLU	A	107	-7.776	52.082	53.054	1.00 30.68
ATOM	822	C	GLU	Α	107	-7.255	52.010	54.493	1.00 30.66
MOTA	823	0	GLU	A	107	-7.991	51.628	55.409	1.00 32.52
MOTA	824	CB	GLU	А	107	-8.744	53.268	52.866	1.00 33.19
ATOM	825	CG	GLU	A	107	-8.059	54.652	52.795	1.00 50.92
ATOM	826	CD	GLU	A	107	-9.053	55.794	52.621	1.00 75.89
MOTA	827	OE1	GLU	Α	107	-9.430	56.225	51.535	1.00 61.91
ATOM	828	OE2	GLU	A	107	-9.483	56.292	53.762	1.00 47.17
ATOM	829	N	THR	A	108	-5.978	52.366	54.682	1.00 26.11
MOTA	830	CA	THR	A	108	-5.341	52.325	56.009	1.00 28.04
ATOM	831	C	THR	Α	108	-5.664	53.563	56.790	1.00 32.96
ATOM	832	0	THR	A	108	-5.881	54.618	56.202	1.00 30.16
ATOM	833	CB	THR	A	108	-3.787	52.277	55.957	1.00 35.08
ATOM	834	OG1	THR	Α	108	-3.245	53.465	55.378	1.00 29.19
ATOM	835	CG2	THR	A	108	-3.254	51.032	55.245	1.00 32.38
ATOM	836	N	SER	A	109	-5.650	53.417	58.112	1.00 28.09
ATOM	837	CA	SER	Α	109	-5.890	54.508	59.057	1.00 22.39
MOTA	838	C	SER	A	109	-4.612	55.300	59.248	1.00 26.59
ATOM	839	0	SER	А	109	-3.497	54.766	59.191	1.00 23.06
MOTA	840	CB	SER	A	109	-6.316	53.896	60.386	1.00 23.90
MOTA	841	OG	SER	Α	109	-6.087	54.804	61.448	1.00 27.48
MOTA	842	N	PRO	Α	110	-4.720	56.594	59.495	1.00 28.89
ATOM	843	CA	PRO	А	110	-3.481	57.312	59.703	1.00 27.31
MOTA	844	C	PRO	A	110	-2.840	56.838	60.993	1.00 27.91
MOTA	845	0	PRO			-1.651	57.033	61.172	1.00 28.30
MOTA	846	CB	PRO	A	110	-3.776	58.792	59.689	1.00 28.41
MOTA	847	CG	PRO			-5.188	58.921	59.138	1.00 33.97
ATOM	848	CD	PRO			-5.820	57.545	59.214	1.00 30.89
MOTA	849	N	LYS			-3.640	56.170	61.848	1.00 21.21
ATOM	850	CA	LYS			-3.137	55.620	63.098	1.00 21.20
ATOM	851	C	LYS			-2.634	54.163	62.972	1.00 24.12
MOTA	852	0	LYS			-2.502	53.476	63.990	1.00 27.31
MOTA	853	CB	LYS			-4.188	55.688	64.202	1.00 24.13
MOTA	854	CG	LYS			-4.435	57.079	64.786	1.00 44.09
MOTA	855	CD			111	-5.146	58.027	63.832	1.00 80.95
ATOM	856	CE	LYS			-6.627	57.733	63.614	1.00100.00
MOTA	857	NZ			111	-7.193	58.483	62.473	1.00100.00
MOTA	858	N	SER			-2.371	53.669	61.743	1.00 21.95
MOTA	859	CA	SER			-1.891	52.278	61.499	1.00 21.09
ATOM	860	С	SER			-0.709	51.968	62.438	1.00 23.23
MOTA	861	0	SER			0.236	52.722	62.472	1.00 25.25
MOTA	862	CB	SER			-1.467	52.084	60.034	1.00 17.80
MOTA	863	OG	SER			-0.821	50.850	59.845	1.00 19.72
ATOM	864	N	SER	A	113	-0.752	50.884	63.203	1.00 19.64

MOTA	865	CA	SER	A	113	0.342	50.587	64.087	1.00 16.68
MOTA	866	C	SER	A	113	1.539	50.087	63.316	1.00 22.16
ATOM	867	0	SER	Α	113	2.653	50.005	63.822	1.00 21.53
MOTA	868	CB	SER	Α	113	-0.061	49.633	65.183	1.00 20.15
ATOM	869	OG	SER	Α	113	-0.358	48.369	64.663	1.00 23.41
ATOM	870	N	ALA	A	114	1.325	49.741	62.059	1.00 21.04
ATOM	871	CA	ALA	Α	114	2.432	49.266	61.221	1.00 19.34
MOTA	872	С	ALA	A	114	3.212	50.412	60.581	1.00 20.25
ATOM	873	0	ALA	Α	114	4.287	50.210	60.004	1.00 20.84
ATOM	874	CB	ALA	A	114	1.876	48.455	60.061	1.00 19.26
ATOM	875	N	LEU	Α	115	2.636	51.614	60.636	1.00 17.27
ATOM	876	CA	LEU	Α	115	3.281	52.725	59.992	1.00 19.18
MOTA	877	C	LEU	Α	115	3.619	53.896	60.870	1.00 22.95
ATOM	878	0	LEU	Α	115	3.042	54.162	61.924	1.00 22.70
ATOM	879	CB	LEU	Α	115	2.418	53.298	58.851	1.00 18.69
ATOM	880	CG	LEU	Α	115	1.844	52.219	57.960	1.00 24.36
ATOM	881	CD1	LEU	A	115	0.784	52.871	57.078	1.00 26.30
ATOM	882	CD2	LEU	Α	115	2.954	51.654	57.070	1.00 21.90
ATOM	883	N			116	4.573	54.621	60.358	1.00 19.91
ATOM	884	CA	GLN	Α	116	4.959	55.857	60.974	1.00 19.64
ATOM	885	С	GLN	А	116	5.071	56.896	59.851	1.00 22.36
ATOM	886	0	GLN	Α	116	5.898	56.769	58.943	1.00 21.29
ATOM	887	CB	GLN	Α	116	6.195	55.857	61.891	1.00 21.78
ATOM	888	CG	GLN	Α	116	6.297	57.220	62.637	1.00 28.22
ATOM	889	CD	GLN	Α	116	7.539	57.423	63.481	1.00 33.89
ATOM	890	OE1	GLN	Α	116	8.458	56.585	63.489	1.00 21.37
ATOM	891	NE2			116	7.569	58.557	64.198	1.00 25.06
ATOM	892	N			117	4.207	57.898	59.926	1.00 21.50
ATOM	893	CA	TRP	Α	117	4.163	58.982	58.973	1.00 22.21
ATOM	894	С	TRP	A	117	4.909	60.164	59.588	1.00 24.80
ATOM	895	0	TRP	Α	117	4.500	60.677	60.633	1.00 24.36
MOTA	896	CB	TRP	Α	117	2.706	59.380	58.730	1.00 20.63
MOTA	897	CG	TRP	A	117	1.887	58.374	57.979	1.00 21.43
ATOM	898	CD1	TRP	A	117	1.079	57.439	58.532	1.00 24.14
ATOM	899	CD2	TRP	Α	117	1.736	58.258	56.562	1.00 20.88
MOTA	900	NE1	TRP	A	117	0.467	56.706	57.553	1.00 22.57
ATOM	901	CE2	TRP	Α	117	0.832	57.196	56.331	1.00 24.10
ATOM	902	CE3	TRP	Α	117	2.279	58.953	55.467	1.00 23.47
MOTA	903	CZ2	TRP			0.450	56.806	55.038	1.00 24.69
ATOM	904	CZ3	TRP	Α	117	1.929	58.563	54.182	1.00 26.53
ATOM	905	CH2	TRP	A	117	1.022	57.503	53.974	1.00 27.59
ATOM	906	N	LEU	Α	118	6.000	60.565	58.932	1.00 19.11
MOTA	907	CA	LEU	Α	118	6.864	61.652	59.372	1.00 20.20
ATOM	908	C	LEU			6.594	62.936	58.603	1.00 29.18
MOTA	909	0	LEU			6.422	62.907	57.379	1.00 29.44
MOTA	910	CB	LEU	Α	118	8.364	61.287	59.137	1.00 21.47
ATOM	911	CG	LEU	A	118	8.985	60.284	60.141	1.00 28.52
ATOM	912	CD1	LEU	A	118	8.137	59.016	60.275	1.00 30.03
ATOM	913	CD2	LEU	A	118	10.410	59.939	59.716	1.00 27.52
ATOM	914	N	THR	Α	119	6.573	64.076	59.305	1.00 23.98
ATOM	915	CA	THR			6.379	65.362	58.636	1.00 19.34
ATOM	916	C	THR	A	119	7.776	65.731	58.183	1.00 23.45
MOTA	917	0	THR	A	119	8.736	65.253	58.783	1.00 24.77
ATOM	918	CB	THR			5.910	66.402	59.682	1.00 26.76
ATOM	919	OG1	THR	A	119	6.915	66.529	60.673	1.00 27.33
ATOM	920	CG2	THR	A	119	4.637	65.950	60.390	1.00 28.42
MOTA	921	N	PRO	A	120	7.933	66.565	57.151	1.00 22.29
MOTA	922	CA	PRO	A	120	9.255	66.927	56.678	1.00 22.30

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ATOM	923	C	PRO			10.178	67.419	57.800	1.00 28.55
ATOM	924	0	PRO			11.404	67.260	57.754	1.00 27.54
ATOM	925	CB	PRO			9.059	68.024	55.624	1.00 23.05
MOTA	926	CG	PRO	Α	120	7.581	68.150	55.384	1.00 24.12
MOTA	927	CD	PRO	А	120	6.876	67.282	56.407	1.00 21.87
MOTA	928	N	GLU	Α	121	9.583	68.022	58.822	1.00 28.60
MOTA	929	CA	GLŲ	Α	121	10.366	68.529	59.937	1.00 31.89
MOTA	930	С	GLU	Α	121	11.104	67.394	60.658	1.00 37.79
ATOM	931	0	GLU	А	121	12.205	67.554	61.198	1.00 35.72
ATOM	932	CB	GLU			9.442	69.247	60.938	1.00 34.43
ATOM	933	CG	GLU			8.757	70.526	60.397	1.00 61.71
ATOM	934	CD	GLU			7.773	70.370	59.250	1.00 95.37
ATOM	935		GLU			6.808	69.624	59.252	1.00 50.70
ATOM	936	OE2				8.033	71.193	58.262	1.00100.00
ATOM	937	N	GLN			10.456	66.228	60.673	
ATOM		CA							1.00 33.10
	938	CA	GLN			11.011	65.066	61.339	1.00 30.63
ATOM	939		GLN			12.104	64.392	60.538	1.00 33.25
MOTA	940	0	GLN			12.637	63.388	60.962	1.00 33.00
ATOM	941	CB	GLN			9.905	64.039	61.637	1.00 30.70
ATOM	942	CG	GLN			8.966	64.462	62.774	1.00 23.20
ATOM	943	CD	GLN			7.703	63.620	62.818	1.00 27.73
MOTA	944		GLN			6.781	63.798	62.016	1.00 34.90
ATOM	945	NE2	GLN	Α	122	7.655	62.689	63.757	1.00 30.55
MOTA	946	N	THR	Α	123	12.427	64.912	59.356	1.00 29.61
MOTA	947	CA	THR	Α	123	13.438	64.288	58.495	1.00 27.96
MOTA	948	C	THR	А	123	14.730	65.030	58.506	1.00 31.63
MOTA	949	0	THR	A	123	14.831	66.111	59.060	1.00 34.46
ATOM	950	CB	THR	A	123	12.966	64.183	57.029	1.00 24.54
ATOM	951	OG1	THR	Α	123	12.855	65.504	56.515	1.00 28.43
MOTA	952	CG2	THR	A	123	11.594	63.521	56.985	1.00 18.48
MOTA	953	N	SER	Α	124	15.712	64.440	57.870	1.00 24.71
MOTA	954	CA	SER	Α	124	16.980	65.088	57.814	1.00 25.71
ATOM	955	C	SER	A	124	16.886	66.308	56.900	1.00 34.45
MOTA	956	0	SER	A	124	17.399	67.377	57.227	1.00 34.98
ATOM	957	CB	SER	Α	124	18.094	64.182	57.317	1.00 25.78
ATOM	958	OG	SER	Α	124	18.268	63.099	58.177	1.00 34.37
ATOM	959	N	GLY	A	125	16.221	66.110	55.756	1.00 32.47
ATOM	960	CA	GLY	Α	125	16.042	67.119	54.717	1.00 33.54
MOTA	961	С	GLY	A	125	15.086	68.279	55.024	1.00 38.01
ATOM	962	0	GLY			15.226	69.371	54.450	1.00 35.01
MOTA	963	N	LYS			14.100	68.055	55.893	1.00 32.87
ATOM	964	CA	LYS			13.181	69.126	56.236	1.00 30.74
ATOM	965	C	LYS			12.281	69.626	55.101	1.00 34.13
ATOM	966	0	LYS			11.453	70.517	55.351	1.00 33.10
ATOM	967	CB	LYS			13.940	70.303	56.823	1.00 31.29
ATOM	968	CG	LYS			15.031	69.877	57.790	1.00 34.55
ATOM	969	CD	LYS			14.459	69.111	58.962	1.00 40.18
ATOM	970		LYS			15.496	68.661	59.973	1.00 40.18
ATOM	971	NZ	LYS			14.895	67.775	60.987	1.00 46.79
MOTA	972	N	GLU						
ATOM	973	CA				12.436	69.079	53.869	1.00 27.28
			GLU			11.617	69.510	52.737	1.00 26.31
ATOM	974	C	GLU			10.566	68.517	52.300	1.00 35.95
ATOM	975		GLU			9.636	68.879	51.575	1.00 35.05
ATOM	976		GLU			12.460	69.926	51.535	1.00 27.71
ATOM	977		GLU				71.052	51.871	1.00 37.61
ATOM	978		GLU				72.391	51.971	1.00 42.53
ATOM	979		GLU				72.730	51.272	1.00 63.41
ATOM	980	OE2	GLU	A	127	13.334	73.149	52.873	1.00 42.43

ATOM	981	N	HIS	А	128	10.729	67.260	52.730	1.00 32.31
MOTA	982	CA			128	9.786	66.221	52.395	1.00 29.92
ATOM	983	C			128	9.400	65.337	53.570	1.00 27.82
ATOM	984	0			128	10.117	65.179	54.549	1.00 29.92
ATOM	985	СВ			128	10.345	65.324	51.308	1.00 29.24
ATOM	986	CG			128	10.843	66.080	50.152	1.00 31.61
MOTA	987		HIS			9.978	66.601	49.205	1.00 33.89
MOTA	988		HIS			12.113	66.358	49.795	1.00 34.18
MOTA	989	CE1	HIS	Α	128	10.738	67.176	48.294	1.00 33.86
MOTA	990	NE2	HIS	Α	128	12.030	67.053	48.618	1.00 34.37
MOTA	991	N	PRO	Α	129	8.261	64.747	53.430	1.00 21.92
ATOM	992	CA	PRO	A	129	7.756	63.846	54.424	1.00 21.51
ATOM	993	С	PRO	A	129	8.419	62.474	54.216	1.00 26.61
ATOM	994	0	PRO	Α	129	9.302	62.284	53.376	1.00 25.02
ATOM	995	CB			129	6.265	63.736	54.162	1.00 21.80
ATOM	996	CG			129	6.098	64.059	52.690	1.00 28.71
ATOM	997	CD			129	7.353	64.818	52.263	1.00 23.90
ATOM	998	N			130	8.016	61.498	54.998	1.00 22.26
ATOM	999	CA			130	8.646	60.195	54.881	1.00 20.30
ATOM	1000	C			130	7.747	59.148	55.492	1.00 23.74
MOTA	1001	0	TYR			7.022	59.381	56.442	1.00 23.54
MOTA	1002	CB			130	9.959	60.250	55.663	1.00 20.15
MOTA	1003	CG	TYR	Α	130	10.909	59.072	55.574	1.00 23.26
ATOM	1004	CD1	TYR	A	130	10.623	57.805	56.104	1.00 23.27
MOTA	1005	CD2	TYR	Α	130	12.148	59.271	54.966	1.00 24.16
MOTA	1006	CE1	TYR	Α	130	11.555	56.765	56.013	1.00 20.09
MOTA	1007	CE2	TYR	A	130	13.100	58.255	54.888	1.00 23.94
ATOM	1008	CZ	TYR	Α	130	12.795	57.001	55.410	1.00 19.50
MOTA	1009	OH	TYR	А	130	13.751	56.053	55.281	1.00 24.55
ATOM	1010	N	LEU	A	131	7.764	57.970	54.948	1.00 21.39
ATOM	1011	CA	LEU			6.916	56.975	55.551	1.00 23.29
ATOM	1012	C	LEU			7.671	55.654	55.583	1.00 26.48
ATOM	1013	ō	LEU			8.450	55.368	54.658	1.00 22.90
MOTA	1014	СВ	FEA			5.632	56.805	54.721	1.00 22.31
ATOM	1015	CG	LEU			4.960	55.462	54.943	1.00 24.82
ATOM	1016		LEU			4.060	55.574	56.168	1.00 24.09
ATOM	1017		LEU			4.166	55.056	53.690	1.00 23.63
							54.866	56.631	1.00 24.01
ATOM	1018	N	PHE			7.463			
ATOM	1019	CA	PHE			8.101	53.539	56.711	1.00 23.69
ATOM	1020	C	PHE			7.231	52.575	57.474	1.00 23.59
ATOM	1021	0	PHE			6.529	52.952	58.394	1.00 20.95
ATOM	1022	CB	PHE			9.545	53.507	57.253	1.00 25.79
ATOM	1023	CG	PHE			9.654	53.806	58.740	1.00 26.81
ATOM	1024		PHE			9.338	52.852	59.713	1.00 26.02
ATOM	1025		PHE			10.102	55.055	59.169	1.00 24.48
ATOM	1026	CE1	PHE	A	132	9.458	53.144	61.074	1.00 24.42
MOTA	1027	CE2	PHE	Α	132	10.230	55.362	60.525	1.00 23.41
ATOM	1028	CZ	PHE	Α	132	9.900	54.403	61.485	1.00 19.60
ATOM	1029	N	SER	Α	133	7.246	51.322	57.103	1.00 20.10
MOTA	1030	CA	SER	A	133	6.434	50.355	57.804	1.00 17.87
MOTA	1031	С	SER			7.320	49.461	58.639	1.00 18.33
ATOM	1032	0	SER			8.539	49.439	58.517	1.00 21.07
MOTA	1033	СВ	SER			5.739	49.451	56.811	1.00 24.24
ATOM	1034	OG	SER			6.735	48.694	56.128	1.00 24.12
ATOM	1035	N	GLN			6.659	48.710	59.463	1.00 24.12
ATOM	1035	CA	GLN			7.268	47.748	60.340	1.00 15.44
									1.00 16.95
MOTA	1037	C	GLN			6.181	46.760	60.729	
MOTA	1038	0	GLN	A	134	5.401	46.994	61.632	1.00 22.06

ATOM	1039	СВ	CTN	7	134	7.966	10 115	61 506	1 00 16 26
							48.415	61.526	1.00 16.26
ATOM	1040	CG			134	8.392	47.346	62.549	1.00 24.87
MOTA	1041	CD			134	9.424	46.414	61.955	1.00 36.09
ATOM	1042	OE1	GLN	A	134	10.363	46.862	61.280	1.00 25.12
MOTA	1043	NE2	GLN	A	134	9.242	45.111	62.187	1.00 30.48
ATOM	1044	N	CYS	A	135	6.076	45.647	60.013	1.00 15.84
MOTA	1045	CA	CYS	Α	135	5.025	44.712	60.313	1.00 16.52
ATOM	1046	C			135	5.298	43.683	61.381	1.00 18.38
ATOM	1047	o			135	4.354	43.170	61.995	1.00 19.10
ATOM					135				
	1048	CB				4.649	43.908	59.067	1.00 20.50
ATOM	1049	SG			135	4.051	44.971	57.762	1.00 25.25
ATOM	1050	N			136	6.545	43.284	61.564	1.00 16.69
MOTA	1051	CA	GLN	A	136	6.756	42.242	62.572	1.00 16.53
MOTA	1052	C	GLN	A	136	6.454	42.824	63.926	1.00 20.04
ATOM	1053	0	GLN	A	136	6.853	43.946	64.194	1.00 21.71
ATOM	1054	CB	GLN	Α	136	8.204	41.703	62.520	1.00 18.54
ATOM	1055	CG			136	8.488	40.565	63.533	1.00 16.78
ATOM	1056	CD			136	9.930	40.052	63.434	1.00 27.57
ATOM	1057		GLN			10.835	40.746	62.930	1.00 19.61
ATOM	1058	NE2			136	10.141	38.826	63.903	1.00 25.09
ATOM	1059	N			137	5.730	42.087	64.769	1.00 16.79
ATOM	1060	CA	ALA	A	137	5.243	40.724	64.514	1.00 16.58
MOTA	1061	C	ALA	A	137	3.931	40.636	63.807	1.00 20.75
MOTA	1062	0	ALA	A	137	3.798	39.912	62.836	1.00 19.63
ATOM	1063	CB	ALA	A	137	5.087	39.918	65.813	1.00 16.76
ATOM	1064	N			138	2.951	41.338	64.321	1.00 18.31
ATOM	1065	CA			138	1.647	41.247	63.721	1.00 18.68
ATOM	1066	С			138	1.065	42.566	63.294	1.00 19.68
ATOM	1067	0			138	-0.053	42.896	63.633	1.00 21.65
ATOM	1068	CB			138	0.727			
							40.532	64.692	1.00 20.75
ATOM	1069	CG1			138	0.761	41.275	66.024	1.00 21.55
ATOM	1070	CG2			138	1.241	39.124	64.882	1.00 17.75
ATOM	1071	CD1	ILE			-0.211	40.698	67.044	1.00 23.44
ATOM	1072	N			139	1.789	43.309	62.525	1.00 19.15
ATOM	1073	CA	HIS	A	139	1.231	44.581	62.113	1.00 19.05
MOTA	1074	С	HIS	A	139	0.899	44.615	60.644	1.00 23.60
MOTA	1075	0	HIS	Α	139	0.427	45.604	60.127	1.00 25.90
MOTA	1076	CB	HIS	A	139	2.149	45.781	62.471	1.00 19.09
ATOM	1077	CG	HIS	Α	139	2.429	45.870	63.961	1.00 21.83
ATOM	1078	ND1	HIS	A	139	1.476	46.324	64.872	1.00 22.32
MOTA	1079		HIS			3,547	45.567	64.661	1.00 21.82
ATOM	1080		HIS				46.253	66.072	1.00 21.72
ATOM	1081		HIS			3.259	45.811	65.980	1.00 21.41
ATOM	1082	N	CYS				43.545	59.942	
									1.00 21.39
ATOM	1083	CA	CYS			0.854	43.573	58.525	1.00.21.71
ATOM	1084	C	CYS				43.848	58.327	1.00 20.64
ATOM	1085	0	CYS			-1.071	44.542	57.405	1.00 21.98
MOTA	1086	CB	CYS			1.237	42.260	57.823	1.00 22.30
ATOM	1087	SG	CYS	A	140	1.089	42.457	56.029	1.00 27.57
MOTA	1088	N	ARG	A	141	-1.384	43.259	59.232	1.00 18.28
ATOM	1089	CA	ARG	A	141	-2.819	43.369	59.261	1.00 20.32
ATOM	1090	C	ARG	Α	141	-3.265	44.823	59.352	1.00 27.93
ATOM	1091	0	ARG			-4.438	45.135	59.078	1.00 29.72
ATOM	1092	СВ	ARG			-3.436	42.518	60.369	1.00 16.68
ATOM	1093	CG	ARG			-3.430	42.944	61.781	1.00 18.27
ATOM	1093	CD	ARG						
						-3.571	41.985	62.866	1.00 15.44
ATOM	1095	NE	ARG			-2.857	40.717	62.896	1.00 20.15
ATOM	1096	CZ	ARG	А	141	-2.996	39.785	63.813	1.00 20.72

ATOM	1097	NH1	ARG A	A	141	-3.825	39.908	64.827	1.00 16.67
MOTA	1098		ARG A			-2.258	38.692	63.685	1.00 22.83
ATOM	1099	N	ALA			-2.314	45.707	59.754	1.00 18.15
ATOM	1100	CA	ALA			-2.599	47.127	59.901	1.00 17.64
ATOM	1101	C	ALA			-2.265	47.823	58.619	1.00 22.89
ATOM	1102	ō	ALA			-2.296	49.024	58.506	1.00 22.38
ATOM	1103	СВ	ALA A			-1.908	47.771	61.085	1.00 17.04
		N	ILE A			-1.925	47.041	57.621	1.00 24.40
ATOM	1104								
MOTA	1105	CA	ILE A			-1.634	47.632	56.341	1.00 25.97
MOTA	1106	C	ILE A			-2.641	47.117	55.334	1.00 33.49
MOTA	1107	0	ILE A			-3.259	47.865	54.585	1.00 36.37
ATOM	1108	CB	ILE A			-0.222	47.447	55.839	1.00 29.94
MOTA	1109	CG1	ILE A			0.791	47.972	56.853	1.00 29.88
MOTA	1110	CG2	ILE A			-0.094	48.232	54.533	1.00 33.06
ATOM	1111	CD1	ILE A			2.224	47.722	56.389	1.00 26.42
MOTA	1112	N	LEU I			-2.843	45.822	55.350	1.00 28.38
ATOM	1113	CA	LEU I	A.	144	-3.815	45.204	54.438	1.00 29.40
ATOM	1114	C	LEU A	Ą	144	-4.421	43.917	55.030	1.00 33.99
ATOM	1115	0	LEU A	A	144	-3.928	43.349	56.037	1.00 30.51
ATOM	1116	CB	LEU A	A.	144	-3.213	44.969	53.037	1.00 30.43
MOTA	1117	CG	LEU A	A	144	-1.868	44.266	53.111	1.00 33.80
ATOM	1118	CD1	LEU I	A	144	-2.073	42.761	53.007	1.00 35.20
ATOM	1119	CD2	LEU 2	A	144	-0.935	44.758	52.023	1.00 38.26
ATOM	1120	N	PRO Z	A	145	-5.507	43.446	54.432	1.00 27.43
ATOM	1121	CA	PRO I	Ą	145	-6.094	42.259	54.979	1.00 25.19
ATOM	1122	C	PRO I	A	145	-5.294	41.059	54.513	1.00 23.80
ATOM	1123	0	PRO I			-4.832	41.009	53.376	1.00 23.96
ATOM	1124	CB	PRO A			-7.567	42.266	54.566	1.00 27.07
ATOM	1125	CG	PRO A			-7.810	43.609	53.886	1.00 31.08
ATOM	1126	CD	PRO A			-6.445	44.131	53.505	1.00 26.31
MOTA	1127	N	CYS 2			-5.080	40.145	55.448	1.00 23.01
ATOM	1128	CA	CYS I			-4.272	38.956	55.215	1.00 24.70
MOTA	1129	C	CYS I			-4.329	37.973	56.367	1.00 28.20
ATOM	1130	0	CYS 2			-4.966	38.211	57.413	1.00 23.14
ATOM	1131	CB	CYS I			-2.793	39.335	55.036	1.00 25.42
MOTA	1132	SG	CYS Z			-2.164	40.274	56.463	1.00 31.88
MOTA	1133	N	GLN A			-3.647	36.843	56.134	1.00 22.82
ATOM	1134	CA	GLN A			-3.522	35.796	57.127	1.00 23.08
ATOM	1135	C	GLN 2			-2.238	36.197	57.832	1.00 28.00
ATOM	1136	0	GLN A			-1.131	35.841	57.415	1.00 25.08
ATOM	1137	CB	GLN A			-3.346	34.427	56.449	1.00 24.85
•	1138	CG	GLN I			-4.671	33.762	56.084	1.00 19.17
ATOM							32.428		1.00 15.17
MOTA	1139	CD	GLN A			-4.391		55.427 54.311	1.00 20.64
MOTA	1140		GLN A			-3.871	32.408		
ATOM	1141		GLN I			-4.680	31.326	56.117	1.00 20.44
ATOM	1142	N	ASP A			-2.408	37.011	58.860	1.00 23.32
ATOM	1143	CA	ASP A			-1.295	37.566	59.587	1.00 23.26
ATOM	1144	C	ASP I			-0.627	36.639	60.595	1.00 23.40
MOTA	1145	0	ASP A			-0.574	36.941	61.790	1.00 24.25
ATOM	1146	CB	ASP Z			-1.665	38.916	60.237	1.00 24.70
ATOM	1147	CG	ASP I			-0.440	39.722	60.517	1.00 27.92
ATOM	1148		ASP Z			0.678	39.389	60.113	1.00 27.89
MOTA	1149		ASP A			-0.695	40.795	61.224	1.00 19.92
MOTA	1150	N	THR A			-0.099	35.537	60.060	1.00 19.68
MOTA	1151	CA	THR I			0.607	34.501	60.793	1.00 18.44
MOTA	1152	C	THR A			1.818	34.079	59.981	1.00 23.20
MOTA	1153	0	THR Z	A	149	1.761	34.027	58.741	1.00 18.98
MOTA	1154	CB	THR I	A	149	-0.261	33.256	61.004	1.00 29.08

ATOM	1155	OG1	THR	A	149	0.577	32.168	61.421	1.00 24.67
ATOM	1156		THR			-0.979	32.910	59.680	1.00 23.64
ATOM	1157	N	PRO			2.921	33.765	60.686	1.00 21.90
ATOM	1158	CA	PRO			4.159	33.323	60.016	1.00 19.21
ATOM	1159	C.			150	4.018	31.886	59.479	1.00 21.32
ATOM	1160	0	PRO			4.898	31.352	58.829	1.00 18.90
MOTA	1161	CB	PRO			5.260	33.356	61.103	1.00 19.24
ATOM	1162	CG	PRO			4.544	33.455	62.444	1.00 20.32
ATOM	1163	CD	PRO			3.125	33.922	62.168	1.00 20.18
ATOM	1164	N			151	2.902	31.226	59.771	1.00 18.68
ATOM	1165	CA	SER			2.737	29.862	59.276	1.00 20.66
ATOM	1166	C	SER			2.351	29.863	57.820	1.00 20.66
ATOM	1167	0	SER			2.295	28.836	57.199	1.00 26.24
ATOM	1168	CB	SER			1.674	29.117	60.057	1.00 25.24
ATOM	1169	OG	SER			0.444			
ATOM	1170	N	VAL				29.814	59.897	1.00 32.09
		CA	VAL			2.086	31.017	57.282	1.00 18.17
ATOM	1171	CA	VAL			1.696	31.105	55.899	1.00 20.54
ATOM	1172					2.740	31.874	55.088	1.00 26.40
ATOM	1173	0	VAL			3.159	32.955	55.494	1.00 25.43
ATOM	1174	CB	VAL			0.307	31.756	55.773	1.00 22.01
ATOM	1175		VAL			0.000	32.092	54.316	1.00 21.07
ATOM	1176		VAL			-0.742	30.818	56.325	1.00 21.78
ATOM	1177	N	LYS			3.163	31.316	53.934	1.00 21.69
ATOM	1178	CA	LYS			4.146	31.985	53.101	1.00 20.64
ATOM	1179	C	LYS			3.606	32.223	51.720	1.00 25.15
ATOM	1180	0	LYS			3.041	31.329	51.114	1.00 27.06
MOTA	1181	CB	LYS			5.455	31.218	53.016	1.00 24.18
ATOM	1182	CG	LYS			6.159	31.061	54.360	1.00 29.97
ATOM	1183	CD	LYS			7.582	30.546	54.220	1.00 19.10
MOTA	1184	CE	LYS			8.276	30.287	55.546	1.00 24.45
ATOM	1185	NZ	LYS			9.760	30.289	55.457	1.00 21.92
MOTA	1186	N	LEU			3.768	33.438	51.213	1.00 22.90
MOTA	1187	CA	LEU			3.286	33.772	49.876	1.00 22.75
MOTA	1188	C	LEU			4.280	34.594	49.091	1.00 23.26
MOTA	1189	0	LEU			5.225	35.207	49.624	1.00 21.95
ATOM	1190	CB	LEU			1.989	34.615	49.972	1.00 23.48
MOTA	1191	CG	LEU			2.246	35.948	50.729	1.00 29.06
MOTA	1192		LEU			1.385	37.086	50.200	1.00 29.05
MOTA	1193 1194	CD2				1.986	35.788 34.653	52.225 47.791	1.00 26.55
ATOM	1195		THR			4.033	35.499		1.00 22.63
ATOM	1196	CA C	THR			4.862 4.088	36.820	46.940 46.772	1.00 25.54
ATOM	1196	0	THR				36.820	47.190	1.00 26.35 1.00 25.33
ATOM	1198	CB	THR			2.929 5.122	34.931	45.526	1.00 25.50
MOTA MOTA	1199		THR				34.294	45.141	1.00 28.50
	1200					3.937			1.00 31.87
MOTA		CG2				6.327	33.991	45.488	1.00 21.48
ATOM	1201 1202	N	TYR			4.721	37.802	46.154	1.00 23.03
ATOM		CA	TYR			4.021	39.040	45.943	
ATOM	1203	C	TYR			4.631	39.924	44.889	1.00 24.76
ATOM	1204	O CP	TYR			5.846	39.919	44.601	1.00 28.65
ATOM	1205	CB	TYR			3.735	39.831	47.252	1.00 22.99
MOTA	1206	CG	TYR			4.853	40.754	47.751	1.00 24.46
MOTA	1207		TYR			4.992	42.048	47.246	1.00 26.47
ATOM	1208	CD2	TYR			5.744	40.356	48.755	1.00 22.08
MOTA	1209	CE1	TYR			6.003	42.894	47.704	1.00 27.20
ATOM	1210	CE2	TYR			6.755	41.194	49.242	1.00 19.36
ATOM	1211	CZ	TYR			6.874	42.476	48.709	1.00 28.26
MOTA	1212	OH	TYR	A	126	7.819	43.341	49.176	1.00 23.92

ATOM	1213	N	THR	'n	157	3.737	40.711	44.325	1.00 20.53
ATOM	1214	CA	THR			4.079	41.726	43.358	1.00 20.55
		C	THR			3.374	42.996	43.844	
ATOM	1215								1.00 27.95
MOTA	1216	0	THR .			2.300	42.941	44.469	1.00 27.60
ATOM	1217	CB	THR .			3.660	41.345	41.931	1.00 36.12
ATOM	1218	OG1	THR			2.311	40.913	41.927	1.00 35.88
MOTA	1219	CG2	THR	A	157	4.528	40.177	41.502	1.00 31.47
ATOM	1220	N	ALA.	A	158	3.984	44.136	43.604	1.00 26.56
ATOM	1221	CA	ALA	A	158	3.357	45.363	44.034	1.00 28.25
ATOM	1222	C	ALA.	A	158	3.661	46.555	43.115	1.00 33.79
ATOM	1223	0	ALA.	Α	158	4.737	46.682	42.469	1.00 31.04
ATOM	1224	CB	ALA.	A	158	3.749	45.700	45.460	1.00 26.89
ATOM	1225	N	GLU .	A	159	2.693	47.453	43.081	1.00 30.94
MOTA	1226	CA	GLU .	A	159	2.863	48.658	42.328	1.00 32.37
ATOM	1227	C	GLU			2.434	49.789	43.226	1.00 31.24
ATOM	1228	0	GLU			1.311	49.803	43.735	1.00 29.85
ATOM	1229	СВ	GLU .			2.118	48.680	40.993	1.00 35.41
ATOM	1230	CG	GLU .			1.749	47.300	40.444	1.00 59.87
							47.438	39.160	1.00 98.76
ATOM	1231	CD	GLU .			0.983			
ATOM	1232	OE1				-0.110	47.979	39.091	1.00 78.51
MOTA	1233	OE2	GLU .			1.636	46.958	38.126	1.00100.00
ATOM	1234	N	VAL .			3.337	50.714	43.472	1.00 28.73
ATOM	1235	CA	VAL .			2.915	51.778	44.352	1.00 29.43
ATOM	1236	C	VAL .			3.180	53.148	43.786	1.00 29.09
MOTA	1237	0	VAL .			4.292	53.442	43.354	1.00 27.09
MOTA	1238	CB	VAL .	A	160	3.370	51.589	45.785	1.00 33.76
MOTA	1239	CG1	VAL .			4.212	50.321	45.892	1.00 33.85
MOTA	1240	CG2	VAL .	A	160	4.097	52.814	46.314	1.00 32.12
MOTA	1241	N	SER .	A	161	2.132	53.967	43.760	1.00 29.81
MOTA	1242	CA	SER .	A	161	2.249	55.323	43.202	1.00 29.33
MOTA	1243	C	SER .	A	161	2.558	56.310	44.299	1.00 30.68
MOTA	1244	0	SER .	A	161	1.840	56.364	45.299	1.00 32.33
MOTA	1245	CB	SER .	A	161	0.963	55.756	42.514	1.00 32.12
MOTA	1246	OG	SER .	A	161	1.074	57.091	42.092	1.00 36.30
MOTA	1247	N	VAL .	Α	162	3.614	57.073	44.115	1.00 24.51
MOTA	1248	CA	VAL .	A	162	3.968	58.033	45.125	1.00 25.24
ATOM	1249	C	VAL .	A	162	4.187	59.371	44.477	1.00 37.10
MOTA	1250	0	VAL :	Α	162	4.359	59.438	43.257	1.00 36.28
ATOM	1251	CB	VAL :	A	162	5.284	57.657	45.821	1.00 25.44
MOTA	1252	CG1	VAL	Α	162	5.213	56.287	46.487	1.00 24.46
ATOM	1253	CG2	VAL :	Α	162	6.429	57.684	44.831	1.00 24.47
ATOM	1254	N	PRO			4.203	60.416	45.312	1.00 31.09
ATOM	1255	CA	PRO	A	163	4.476	61.733	44.805	1.00 31.84
ATOM	1256	C	PRO			5.792	61.640	44.040	1.00 31.38
ATOM	1257	0	PRO .			6.821	61.177	44.545	1.00 30.83
ATOM	1258	CB	PRO			4.545	62.640	46.047	1.00 33.90
MOTA	1259	CG	PRO			3.818	61.891	47.158	1.00 36.16
MOTA	1260	CD	PRO			3.635	60.458	46.680	1.00 29.11
MOTA	1261	N	LYS			5.738	62.040	42.789	1.00 30.95
							61.950	41.891	1.00 30.90
ATOM	1262 1263	CA C	LYS :			6.875 8.223	62.361	42.405	1.00 30.30
ATOM									1.00 32.87
MOTA	1264	0	LYS			9.249	61.973	41.850	
MOTA	1265	CB	LYS .			6.614	62.525	40.525	1.00 38.69
ATOM	1266	CG	LYS			5.381	63.405	40.464	1.00 60.47
MOTA	1267	CD	LYS			5.608	64.642	39.612	1.00 87.95
MOTA	1268	CE	LYS .			6.869	64.557	38.757	1.00 94.83
MOTA	1269	NZ	LYS			7.762	65.712	38.926	1.00100.00
ATOM	1270	N	GLU	A	165	8.253	63.168	43.445	1.00 32.55

MOTA	1271	CA	GLU	A	165	9.540	63.587	43.946	1.00 33.95
MOTA	1272	С	GLU	Α	165	10.107	62.617	44.949	1.00 36.46
MOTA	1273	0	GLU	Α	165	11.245	62.742	45.348	1.00 36.58
MOTA	1274	CB	GLU	Α	165	9.510	65.006	44.540	1.00 37.35
MOTA	1275	CG	GLU	А	165	8.599	65.165	45.784	1.00 53.54
ATOM	1276	CD	GLU	A	165	7.138	65.409	45.480	1.00 77.59
MOTA	1277	OE1	GLU	A	165	6.598	65.114	44.421	1.00 44.13
MOTA	1278	OE2	GLU	Α	165	6.512	65.959	46.494	1.00 78.66
MOTA	1279	N	<b>LEU</b>	Α	166	9.314	61.641	45.318	1.00 33.08
ATOM	1280	CA	LEU	Α	166	9.772	60.695	46.299	1.00 33.49
ATOM	1281	C	LEU	A	166	10.068	59.321	45.734	1.00 40.05
ATOM	1282	0	LEU	Α	166	9.578	58.987	44.646	1.00 41.96
MOTA	1283	CB	LEU	A	166	8.727	60.596	47.423	1.00 31.45
ATOM	1284	CG	LEU			8.352	61.938	48.020	1.00 29.81
ATOM	1285		LEU			7.242	61.711	49.041	1.00 27.01
ATOM	1286		LEU			9.598	62.582	48.632	1.00 21.37
ATOM	1287	N	VAL			10.874	58.544	46.500	1.00 30.67
MOTA	1288	CA	VAL			11.238	57.178	46.138	1.00 29.31
ATOM	1289	C	VAL			10.478	56.157	46.996	1.00 35.64
MOTA	1290	ō	VAL			10.216	56.385	48.183	1.00 32.65
ATOM	1291	СВ	VAL			12.721	56.904	46.304	1.00 30.60
ATOM	1292		VAL			13.000	55.483	45.849	1.00 29.30
ATOM	1293	CG2	VAL			13.562	57.880	45.521	1.00 23.30
ATOM	1294	N	ALA			10.132	55.017	46.400	1.00 31.04
	1295	CA	ALA			9.453	53.943	47.115	1.00 33.01
ATOM		CA	ALA			10.289	52.685	46.978	1.00 25.38
ATOM	1296								
ATOM	1297	0	ALA			10.786	52.362	45.875	1.00 37.97
ATOM	1298	CB N	ALA LEU			8.046 10.482	53.694	46.637 48.110	1.00 28.00 1.00 28.52
ATOM	1299	CA	LEU				51.997 50.769	48.139	1.00 24.26
ATOM	1300	CA	LEU			11.256	49.738	48.879	1.00 27.24
MOTA	1301	0	LEU			10.464 9.694			1.00 27.24
ATOM	1302		LEU				50.071	49.786	
ATOM	1303	CB				12.615	50.908	48.841	1.00 24.31
ATOM	1304	CG	LEU			13.525	51.974	48.250	1.00 28.56
ATOM	1305		LEU			14.739	52.181	49.173	1.00 27.05
ATOM	1306		TEA			13.993	51.550	46.852	1.00 27.25
ATOM	1307	N	MET			10.649	48.480	48.486	1.00 26.02
ATOM	1308	CA	MET			9.952	47.392	49.144	1.00 23.03
ATOM	1309	C	MET			10.856	46.224	49.455	1.00 18.57
ATOM	1310	0	MET			12.033	46.212	49.085	1.00 20.77
ATOM	1311	CB	MET			8.712	46.943	48.371	1.00 24.60
MOTA	1312	CG	MET			7.654		48.535	1.00 25.34
ATOM	1313	SD	MET			6.105	47.419		1.00 28.58
MOTA	1314	CE	MET			5.380	46.463	49.232	1.00 24.66
ATOM	1315	N	SER			10.298	45.244	50.173	1.00 17.78
ATOM	1316	CA	SER			 11.062	44.069	50.482	1.00 16.80
MOTA	1317	C	SER				43.128	49.265	1.00 26.03
MOTA	1318	0	SER				42.018	49.344	1.00 25.31
MOTA	1319	CB	SER			10.527	43.436	51.748	1.00 17.00
MOTA	1320	OG	SER			9.130	43.207	51.625	1.00 20.17
ATOM	1321	N	ALA			11.298	43.612	48.095	1.00 26.60
MOTA	1322	CA	ALA				42.849	46.875	1.00 25.77
MOTA	1323	C	ALA				43.339	45.860	1.00 32.28
MOTA	1324	0	ALA				44.299	46.114	1.00 26.87
MOTA	1325	CB	ALA			9.762	43.083	46.332	1.00 25.21
ATOM	1326	N	ILE	A	173		42.678	44.700	1.00 30.44
ATOM	1327	CA	ILE				43.110	43.661	1.00 29.54
MOTA	1328	С	ILE	A	173	12.510	44.319	42.959	1.00 30.78

MOTA	1329	0	ILE A	173	11.331	44.315	42.583	1.00 29.32
MOTA	1330	CB	ILE A		13.479	41.997	42.661	1.00 31.06
MOTA	1331	CG1	ILE A	173	14.210	40.874	43.388	1.00 28.42
MOTA	1332	CG2	ILE A	173	14.431	42.563	41.617	1.00 32.58
ATOM	1333	CD1	ILE A	173	15.604	41.286	43.851	1.00 33.22
ATOM	1334	N	ARG A	174	13.328	45.356	42.834	1.00 31.92
MOTA	1335	CA	ARG A	174	12.906	46.595	42.197	1.00 33.87
ATOM	1336	C	ARG A	174	12.582	46.236	40.785	1.00 39.44
MOTA	1337	0	ARG A	174	13.467	45.775	40.091	1.00 34.80
ATOM	1338	CB	ARG A	174	14.004	47.669	42.218	1.00 35.31
ATOM	1339	CG	ARG A	174	14.186	48.368	43.579	1.00 42.88
ATOM	1340	CD	ARG A	174	15.229	49.492	43.608	1.00 39.93
ATOM	1341	NE	ARG A	174	16.516	49.129	43.013	1.00 59.20
ATOM	1342	CZ	ARG A	174	17.329	49.992	42.407	1.00 92.36
ATOM	1343	NH1	ARG A		17.032	51.288	42.284	1.00100.00
ATOM	1344	NH2	ARG A	174	18.474	49.542	41.901	1.00 84.94
ATOM	1345	N	ASP A		11.324	46.397	40.406	1.00 44.29
ATOM	1346	CA	ASP A		10.850	46.070	39.076	1.00 48.46
ATOM	1347	C	ASP A		10.987	47.236	38.107	1.00 61.94
ATOM	1348	0	ASP A		11.709	47.177	37.124	1.00 69.21
ATOM	1349	CB	ASP A		9.401	45.553	39.111	1.00 52.28
ATOM	1350	CG	ASP A		9.079	44.536	38.041	1.00 76.56
ATOM	1351		ASP A		9.926	44.028	37.313	1.00 76.21
ATOM	1352		ASP A		7.788	44.270	37.964	1.00 85.33
ATOM	1353	N	GLY A		10.293	48.309	38.369	1.00 59.49
ATOM	1354	CA	GLY A		10.405	49.442	37.489	1.00 59.25
ATOM	1355	C	GLY A		9.723	50.662	38.055	1.00 62.28
MOTA	1356	0	GLY A		8.958	50.585	39.026	1.00 61.93
ATOM	1357	N	GLU A		10.028	51.784	37.418	1.00 56.86
ATOM	1358	CA	GLU A		9.473	53.070	37.772	1.00 56.20
ATOM	1359	C	GLU A		9.128	53.804	36.495	1.00 66.31
ATOM	1360	0	GLU A		9.865	53.745	35.499	1.00 67.90
MOTA	1361	CB	GLU A		10.411	53.926	38.645	1.00 55.46
ATOM	1362	CG	GLU A		11.304	54.835	37.783	1.00 54.29
ATOM	1363	CD	GLU A		11.996	55.940	38.534	1.00 73.05
ATOM	1364	OE1	GLU A		11.471	57.005	38.805	1.00 66.34
MOTA	1365	OE2	GLU A		13.242	55.657	38.817	1.00 54.79
ATOM	1366	N	THR A		7.997	54.483	36.541	1.00 63.56
MOTA	1367	CA	THR A		7.496	55.245	35.419	1.00 63.49
ATOM	1368	C	THR A		6.534	56.305	35.923	1.00 64.39
ATOM	1369	0	THR A		6.338	56.452	37.118	1.00 65.55
ATOM	1370	CB	THR A		6.737			
ATOM	1371		THR A		6.206	55.012	33.376	1.00100.00
ATOM	1372	CG2			5.617	53.590	35.263	1.00 62.95
MOTA	1373	N	PRO A		5.919	57.042	35.013	1.00 56.32
MOTA	1374	CA	PRO A		4.958	58.025	35.406	1.00 51.92
ATOM	1375	C	PRO A		3.593	57.388	35.536	1.00 51.24
MOTA	1376	o	PRO A		3.192	56.586	34.698	1.00 51.46
	1377	CB	PRO A		4.942	59.054	34.282	1.00 53.51
ATOM ATOM		CG	PRO A		6.214	58.838	33.470	1.00 59.43
	1378	CD	PRO A		6.905	57.628	34.060	1.00 56.49
MOTA	1379		ASP A		2.906	57.739	36.614	1.00 30.43
MOTA	1380	N	ASP A		1.581	57.739	36.884	1.00 45.28
MOTA	1381	CA			0.780	57.264	35.799	1.00 43.28
MOTA	1382	C	ASP A		1.131	59.004	35.376	1.00 62.22
ATOM	1383	O	ASP A			57.806	38.255	1.00 62.62
MOTA	1384	CB	ASP A		1.156 -0.212		38.679	1.00 43.41
ATOM	1385	CG	ASP A				37.904	1.00 53.37
MOTA	1386	ODT	ASP A	TRO	-1.073	56.997	37.304	1.00 33.3/

ATOM	1387	OD2	ASP A	A 180	-0.383	57.463	39.973	1.00 47.57
ATOM	1388	N	PRO Z			57.280	35.296	1.00 69.44
ATOM	1389	CA	PRO I			57.955	34.234	1.00 72.53
MOTA	1390	C	PRO A			58.272	34.587	1.00 72.33
ATOM	1391	0	PRO A			58.459		1.00 84.95
							33.717	
MOTA	1392	CB	PRO I			57.076	32.987	1.00 74.39
MOTA	1393	CG	PRO A			55.954	33.319	1.00 77.89
ATOM	1394	æ	PRO I			56.057	34.810	1.00 71.93
MOTA	1395	N	GLU 1	182	-2.632	58.382	35.887	1.00 83.47
MOTA	1396	CA	GLU A	182	-3.961	58.676	36.386	1.00 86.24
ATOM	1397	C	GLU A	182	-4.259	60.167	36.436	1.00 98.16
MOTA	1398	0	GLU A	182	-4.003	60.882	35.460	1.00100.00
ATOM	1399	CB	GLU A	182	-4.278	57.994	37.726	1.00 87.28
ATOM	1400	CG	GLU A	182	-5.779	57.681	37.863	1.00 90.17
ATOM	1401	CD	GLU A			56.682	36.842	1.00100.00
ATOM	1402		GLU A			56.882	35.637	1.00100.00
ATOM	1403	OE2				55.578	37.385	1.00100.00
MOTA	1404	N	ASP A			60.640	37.598	
ATOM		CA	ASP A					1.00 96.59
	1405					62.060	37.848	1.00 97.69
ATOM	1406	C	ASP A			62.809	38.721	1.00100.00
ATOM	1407	0	ASP A			63.829	39.375	1.00100.00
MOTA	1408	CB	ASP A			62.127	38.653	1.00 99.62
ATOM	1409	CG	ASP A			61.432	38.090	1.00100.00
ATOM	1410	OD1	ASP A	183	-8.310	60.544	38.680	1.00100.00
MOTA	1411	OD2	ASP A	183	-8.091	61.903	36.918	1.00100.00
MOTA	1412	N	PRO A	184	-2.797	62.341	38.750	1.00 95.70
MOTA	1413	CA	PRO A	184	-1.734	62.796	39.641	1.00 94.16
ATOM	1414	C	PRO A	184	-0.516	63.593	39.206	1.00 96.46
MOTA	1415	0	PRO A	184	-0.294	63.958	38.050	1.00 99.66
MOTA	1416	СВ	PRO A	184	-0.980	61.479	39.654	1.00 95.77
ATOM	1417	CG	PRO A	184	-0.835	61.166	38.163	1.00 99.25
ATOM	1418	CD	PRO A			61.763	37.565	1.00 94.91
ATOM	1419	N	SER A			63.703	40.258	1.00 86.69
ATOM	1420	CA	SER A		1.658	64.262	40.362	1.00 82.33
ATOM	1421	C	SER A		2.434	63.253	41.219	1.00 77.73
ATOM	1422	0	SER A		3.198	63.570	42.144	1.00 77.73
ATOM	1423	CB	SER A		1.710	65.661	40.921	
MOTA			SER A		2.756			1.00 85.04
	1424	OG				66.349	40.263	1.00 97.98
ATOM	1425	N	ARG A		2.121	61.994	40.856	1.00 62.61
MOTA	1426	CA	ARG A		2.591	60.741	41.404	1.00 55.55
ATOM	1427	C	ARG A		3.444	59.990	40.366	1.00 56.85
ATOM	1428	0	ARG A		3.354		39.158	
ATOM	1429	CB	ARG A		1.388	59.859	41.742	1.00 41.52
MOTA	1430	CG	ARG A			60.389	42.805	1.00 32.21
MOTA	1431	CD	ARG A		0.602	59.683	44.153	1.00 42.93
ATOM	1432	NE	ARG A	186	-0.519	59.935	45.043	1.00 79.86
ATOM	1433	CZ	ARG A	186	-0.467	60.731	46.113	1.00100.00
ATOM	1434	NH1	ARG A	186	0.659	61.360	46.468	1.00100.00
MOTA	1435	NH2	ARG A	186	-1.566	60.880	46.860	1.00100.00
MOTA	1436	N	LYS A	187	4.273	59.078	40.867	1.00 47.78
ATOM	1437	CA	LYS A		5.164	58.231	40.095	1.00 44.24
MOTA	1438	C	LYS A		4.856	56.802	40.532	1.00 50.17
ATOM	1439	0	LYS A		4.464	56.573	41.684	1.00 49.60
ATOM	1440	СВ	LYS A		6.604	58.608	40.417	1.00 45.31
ATOM	1441	CG	LYS A		7.703	57.832	39.706	1.00 45.31
ATOM	1442	CD	LYS A		9.099	58.045	40.318	1.00 37.40
ATOM	1442	CE	LYS A		9.919			
ATOM		NZ				59.196	39.732	1.00 27.19
ATOM	1444	147	LYS A	14/	11.371	59.057	39.898	1.00 40.78

MOTA	1445	N	ILE A	188	5.006	55.832	39.620	1.00 46.34
ATOM	1446	CA	ILE A		4.732	54.438	39.963	1.00 43.89
ATOM	1447	C.	ILE A		5.884	53.438	40.044	1.00 45.27
						53.147	39.068	1.00 42.03
MOTA	1448	0	ILE A		6.596			
MOTA	1449	CB	ILE A		3.357	53.861	39.782	1.00 46.49
MOTA	1450	CG1	ILE A		3.571	52.427	39.378	1.00 46.61
MOTA	1451	CG2	ILE A	188	2.528	54.603	38.744	1.00 45.69
ATOM	1452	CD1	ILE A	188	2.888	51.492	40.354	1.00 66.60
ATOM	1453	N	TYR A	189	6.055	52.933	41.277	1.00 39.79
ATOM	1454	CA	TYR A	189	7.108	52.024	41.630	1.00 36.01
ATOM	1455	С	TYR A	189	6.634	50.615	41.665	1.00 36.02
ATOM	1456	0	TYR A		5.632	50.291	42.321	1.00 36.41
ATOM	1457	CB	TYR A		7.766	52.446	42.952	1.00 37.07
ATOM	1458	CG	TYR A		8.644	53.677	42.783	1.00 36.77
			TYR A		9.904	53.567	42.197	1.00 39.01
ATOM	1459	CD1						
ATOM	1460	CD2	TYR A		8.216	54.942	43.193	1.00 34.62
ATOM	1461		TYR A		10.733	54.675	42.029	1.00 41.28
MOTA	1462	CE2	TYR A		9.023	56.067	43.031	1.00 33.53
ATOM	1463	$\mathbf{cz}$	TYR A		10.279	55.927	42.441	1.00 44.38
MOTA	1464	OH	TYR A	189	11.084	57.022	42.277	1.00 44.92
ATOM	1465	N	LYS A	190	7.395	49.801	40.929	1.00 35.47
MOTA	1466	CA	LYS A	190	7.125	48.373	40.772	1.00 36.67
ATOM	1467	С	LYS A	190	8.131	47.441	41.475	1.00 32.16
ATOM	1468	0	LYS A	190	9.337	47.667	41.471	1.00 30.99
ATOM	1469	CB	LYS A		6.872	47.992	39.310	1.00 39.45
ATOM	1470	CG	LYS A		5.457	48.328	38.833	1.00 44.38
ATOM	1471	CD	LYS A		5.417	49.126	37.539	1.00 56.65
	1472	CE	LYS A		5.539	48.274	36.282	1.00 73.04
ATOM		NZ	LYS A		6.686	48.658	35.433	1.00 92.77
ATOM	1473				7.592	46.380	42.076	1.00 27.93
MOTA	1474	N	PHE A					
MOTA	1475	CA	PHE A		8.393	45.421	42.812	1.00 25.63
MOTA	1476	С	PHE A		7.916	43.986	42.679	1.00 25.33
MOTA	1477	0	PHE A		6.708	43.667	42.633	1.00 24.55
MOTA	1478	CB	PHE A		8.281	45.779	44.306	1.00 27.49
MOTA	1479	CG	PHE A		8.548	47.238	44.618	1.00 26.47
ATOM	1480	CD1	PHE A	191	9.838	47.668	44.922	1.00 27.21
MOTA	1481	CD2	PHE A	191	7.508	48.167	44.619	1.00 27.67
MOTA	1482	CE1	PHE A	191	10.086	49.004	45.223	1.00 28.50
MOTA	1483	CE2	PHE A	191	7.739	49.510	44.909	1.00 29.86
MOTA	1484	CZ	PHE A	191	9.038	49.923	45.205	1.00 28.47
MOTA	1485	N	ILE A	192	8.868	43.076	42.700	1.00 26.53
ATOM	1486	CA	ILE A	192	8.485	41.669	42.616	1.00 30.09
ATOM	1487	С	ILE A	192	9.228	40.779	43.609	1.00 26.87
ATOM	1488	0	ILE A		10.446	40.810	43.711	1.00 23.15
MOTA	1489	CB	ILE A		8.661	41.088	41.208	1.00 36.97
ATOM	1490	CG1			10.132	40.970	40.936	1.00 39.49
MOTA	1491		ILE A		8.036	41.938	40.104	1.00 38.69
			ILE A		10.620	39.563	41.245	1.00 73.45
MOTA	1492							1.00 75.43
MOTA	1493	N	GLN A		8.481	39.967	44.331	
ATOM	1494	CA	GLN A		9.095	39.055	45.295	1.00 24.94
MOTA	1495	C	GLN A		8.684	37.626	44.993	1.00 25.94
MOTA	1496	0	GLN A		7.590	37.181	45.376	1.00 25.03
ATOM	1497	CB	GLN A		8.808	39.412	46.772	1.00 24.11
MOTA	1498	CG	GLN A	193	9.426	38.422	47.782	1.00 17.67
MOTA	1499	CD	GLN A	193	10.947	38.402	47.777	1.00 23.92
ATOM	1500	OE1	GLN A	193	11.568	37.485	47.248	1.00 24.84
ATOM	1501	NE2			11.568	39.376	48.394	1.00 21.35
ATOM	1502	N	LYS A		9.611	36.945	44.296	1.00 24.59
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ATOM	1503	CA	LYS			9.486	35.548	43.842	1.00 26.30
ATOM	1504	C	LYS			9.677	34.457	44.943	1.00 33.55
MOTA	1505	0	LYS	A	194	9.254	33.305	44.759	1.00 33.23
MOTA	1506	CB	LYS	A	194	10.379	35.289	42.612	1.00 26.74
MOTA	1507	CG	LYS	Α	194	9.722	35.609	41.258	1.00 39.96
ATOM	1508	CD	LYS	Α	194	10.697	36.137	40.199	1.00 47.00
MOTA	1509	CE	LYS			10.182	36.110	38.751	1.00 59.13
ATOM	1510	NZ	LYS			11.226	35.798	37.746	1.00 54.07
		N	VAL			10.332	34.795	46.076	1.00 25.61
ATOM	1511								
MOTA	1512	CA	VAL			10.542	33.829	47.155	1.00 23.02
MOTA	1513	C	VAL			9.385	33.947	48.108	1.00 27.87
MOTA	1514	0	VAL	A	195	9.099	35.029	48.566	1.00 29.77
ATOM	1515	CB	VAL	A	195	11.833	34.049	47.930	1.00 22.42
MOTA	1516	CG1	VAL	Α	195	11.997	32.891	48.881	1.00 22.09
MOTA	1517	CG2	VAL	A	195	13.057	34.101	47.027	1.00 21.83
MOTA	1518	N	PRO	Α	196	8.687	32.867	48.391	1.00 24.28
ATOM	1519	CA	PRO	Α	196	7.572	32.955	49.297	1.00 22.68
ATOM	1520	С	PRO	Α	196	8.042	33.362	50.704	1.00 27.58
ATOM	1521	0	PRO			9.027	32.837	51.244	1.00 25.38
MOTA	1522	СВ			196	6.886	31.588	49.301	1.00 24.52
ATOM	1523	CG			196	7.686	30.674	48.397	1.00 28.81
								47.831	
ATOM	1524	CD			196	8.822	31.497		1.00 24.64
MOTA	1525	N			197	7.339	34.328	51.287	1.00 22.20
MOTA	1526	CA			197	7.713	34.810	52.578	1.00 19.62
MOTA	1527	С			197	6.498	35.005	53.418	1.00 24.85
ATOM	1528	0			197	5.391	35.163	52.919	1.00 20.49
MOTA	1529	CB			197	8.307	36.176	52.383	1.00 21.90
MOTA	1530	CG1	ILE	A	197	7.317	36.930	51.510	1.00 23.26
ATOM	1531	CG2	ILE	A	197	9.662	36.133	51.681	1.00 22.57
ATOM	1532	CD1	ILE	Α	197	7.442	38.455	51.650	1.00 28.64
ATOM	1533	N	PRO	Α	198	6.725	35.020	54.727	1.00 22.95
ATOM	1534	CA	PRO	Α	198	5.660	35.263	55.686	1.00 20.55
ATOM	1535	C	PRO	A	198	5.308	36.740	55.535	1.00 24.13
ATOM	1536	0	PRO	Α	198	6.192	37.511	55.197	1.00 24.11
ATOM	1537	CB			198	6.286	35.001	57.046	1.00 20.69
ATOM	1538	CG			198	7.782	34.882	56.848	1.00 24.39
ATOM	1539	CD			198	8.046	34.830	55.359	1.00 21.23
ATOM	1540	N			199	4.029	37.129	55.721	1.00 22.42
					199			55.530	1.00 23.29
ATOM	1541	CA				3.597	38.521		
ATOM	1542	C			199	4.310	39.559	56.408	1.00 27.78
MOTA	1543	0			199	4.378	40.752	56.060	1.00 25.00
ATOM	1544	CB			199	2.079	38.691	55.499	1.00 24.93
MOTA	1545	SG			199	1.319	38.281	57.082	1.00 31.80
MOTA	1546	N			200	4.880	39.106	57.542	1.00 21.98
MOTA	1547	CA	TYR	Α	200	5.590	40.062	58.390	1.00 19.50
MOTA	1548	C	TYR	A	200	6.812	40.615	57.730	1.00 21.02
MOTA	1549	0	TYR	A	200	7.392	41.585	58.195	1.00 19.63
ATOM	1550	CB	TYR	Α	200	5.927	39.555	59.788	1.00 19.66
MOTA	1551	CG	TYR	Α	200	7.021	38.532	59.828	1.00 19.06
ATOM	1552	CD1	TYR	A	200	8.354	38.928	59.994	1.00 21.18
ATOM	1553		TYR			6.719	37.172	59.825	1.00 21.09
ATOM	1554		TYR			9.386	37.993	60.025	1.00 16.13
ATOM	1555		TYR			7.737	36.217	59.949	1.00 20.99
MOTA	1556	CZ			200	9.063	36.634	60.015	1.00 20.66
ATOM	1557	OH			200	10.067	35.708	60.013	1.00 19.92
									1.00 15.20
MOTA	1558	N			201	7.211	39.993	56.640	
ATOM	1559	CA			201	8.366	40.433	55.883	1.00 15.14
ATOM	1560	C	ΉĘŲ	A	201	8.004	41.402	54.749	1.00 21.51

MOTA	1561	0	LEU A	201	8.840	41.791	53.934	1.00 21.66
MOTA	1562	CB	LEU A	201	9.177	39.235	55.381	1.00 16.83
MOTA	1563	CG	LEU A	201	9.786	38.370	56.484	1.00 18.02
MOTA	1564	CD1	LEU A	201	10.522	37.230	55.803	1.00 19.59
ATOM	1565	CD2	LEU A	201	10.792	39.169	57.271	1.00 14.71
ATOM	1566	N	ILE A	202	6.733	41.795	54.687	1.00 21.47
MOTA	1567	CA	ILE A	202	6.283	42.764	53.681	1.00 21.65
MOTA	1568	C	ILE A	202	6.660	44.150	54.204	1.00 26.05
MOTA	1569	0	ILE A	202	6.278	44.529	55.321	1.00 23.20
MOTA	1570	CB	ILE A	202	4.780	42.726	53.439	1.00 24.75
ATOM	1571	CG1	ILE A	202	4.373	41.403	52.800	1.00 23.39
ATOM	1572	CG2	ILE A	202	4.437	43.900	52.512	1.00 28.50
ATOM	1573	CD1	ILE A	202	2.864	41.172	52.728	1.00 31.47
MOTA	1574	N	ALA A	203	7.427	44.894	53.431	1.00 19.73
MOTA	1575	CA	ALA A	203	7.855	46.204	53.877	1.00 22.65
MOTA	1576	C	ALA A	203	7.838	47.244	52.757	1.00 25.87
MOTA	1577	0	ALA A	203	8.068	46.955	51.585	1.00 23.99
MOTA	1578	CB	ALA A	203	9.258	46.153	54.511	1.00 23.47
ATOM	1579	N	LEU A	204	7.607	48.474	53.198	1.00 19.67
MOTA	1580	CA	LEU A	204	7.538	49.632	52.347	1.00 18.99
MOTA	1581	C	LEU A	204	8.093	50.857	53.051	1.00 23.68
MOTA	1582	0	LEU A	204	7.893	51.074	54.253	1.00 21.71
MOTA	1583	CB	LEU A	204	6.061	49.879	51.935	1.00 18.01
ATOM	1584	CG	LEU A	204	5.814	51.197	51.17 <b>6</b>	1.00 23.52
MOTA	1585	CD1	LEU A	204	6.230	51.125	49.697	1.00 21.41
MOTA	1586	CD2	LEU A	204	4.345	51.563	51.285	1.00 21.73
MOTA	1587	N	VAL A	205	8.786	51.648	52.258	1.00 22.72
MOTA	1588	CA	VAL A	205	9.348	52.893	52.693	1.00 21.77
ATOM	1589	C	VAL A	205	9.200	53.882	51.559	1.00 26.12
MOTA	1590	0	VAL A		9.508	53.568	50.406	1.00 24.95
MOTA	1591	CB	VAL A		10.812	52.781	53.027	1.00 25.95
MOTA	1592	CG1	VAL A		11.521	52.212	51.803	1.00 26.40
MOTA	1593	CG2	VAL A		11.340	54.192	53.317	1.00 27.95
MOTA	1594	N	VAL A	206	8.732	55.066	51.880	1.00 20.44

ATOM	1595	CA	VAL	Α	206	8.576	56.105	50.858	1.00 21.96
ATOM	1596	C	VAL			9.265	57.379	51.324	1.00 28.78
ATOM	1597	0	VAL			9.008	57.824	52.447	1.00 28.18
MOTA	1598	СВ	VAL			7.109	56.389	50.536	1.00 23.95
	1599		VAL			7.103	57.493	49.488	1.00 25.31
ATOM									
ATOM	1600		VAL			6.442	55.118	50.037	1.00 23.22
MOTA	1601	N	GLY			10.139	57.941	50.498	1.00 25.04
MOTA	1602	CA			207	10.797	59.159	50.914	1.00 26.83
MOTA	1603	С	GLY			11.775	59.691	49.899	1.00 28.05
MOTA	1604	0	GLY	A	207	11.859	59.189	48.780	1.00 29.36
ATOM	1605	N	ALA	Α	208	12.502	60.711	50.346	1.00 26.69
MOTA	1606	CA	ALA	A	208	13.536	61.410	49.578	1.00 29.20
MOTA	1607	С	ALA	Α	208	14.846	60.654	49.687	1.00 31.12
ATOM	1608	0	ALA	Α	208	15.796	61.079	50.353	1.00 29.49
ATOM	1609	CB	ALA	Α	208	13.684	62.841	50.104	1.00 30.49
ATOM	1610	N	LEU	Α	209	14.856	59.514	49.014	1.00 28.20
ATOM	1611	CA	LEU	Α	209	15.963	58.592	49.036	1.00 28.72
ATOM	1612	С			209	17.012	58.709	47.959	1.00 38.13
ATOM	1613	0	LEU			16.751	58.982	46.799	1.00 42.08
ATOM	1614	CB	LEU			15.453	57.135	49.139	1.00 26.94
ATOM	1615	CG			209	14.440	57.028	50.261	1.00 31.37
ATOM	1616		LEU			13.636	55.747	50.154	1.00 33.38
			LEU				57.065		
MOTA	1617					15.188		51.581	1.00 30.28
MOTA	1618	N	GLU			18.212	58.437	48.418	1.00 32.71
ATOM	1619	CA	GLU			19.403	58.405	47.650	1.00 31.96
ATOM	1620	C	GLU			20.080	57.121	48.033	1.00 37.22
MOTA	1621	0	GLU			19.837	56.606	49.126	1.00 34.80
MOTA	1622	CB			210	20.295	59.616	47.927	1.00 32.87
ATOM	1623	CG			210	19.833	60.822	47.107	1.00 44.60
MOTA	1624	CD			210	20.785	61.953	47.229	1.00 82.71
MOTA	1625		GLU			21.889	61.829	47.732	1.00 73.15
MOTA	1626	OE2	GLU	A	210	20.295	63.072	46.753	1.00100.00
MOTA	1627	N	SER	A	211	20.877	56.614	47.105	1.00 35.47
MOTA	1628	CA	SER	A	211	21.581	55.369	47.253	1.00 34.32
ATOM	1629	C	SER	Α	211	23.045	55.490	46.911	1.00 39.68
MOTA	1630	0	SER	Α	211	23.478	56.390	46.219	1.00 45.50
MOTA	1631	CB	SER	Α	211	20.922	54.288	46.378	1.00 38.13
MOTA	1632	OG	SER	Α	211	21.157	54.494	44.982	1.00 40.31
MOTA	1633	N	ARG	Α	212	23.819	54.569	47.381	1.00 30.48
MOTA	1634	CA	ARG	A	212	25.210	54.541	47.065	1.00 29.53
ATOM	1635	C	ARG	Α	212	25.507	53.063	46.924	1.00 35.68
MOTA	1636	0	ARG	Α	212	25.101	52.275	47.774	1.00 35.76
MOTA	1637	CB	ARG	Α	212	26.043	55.203	48.147	1.00 32.65
MOTA	1638	CG	ARG	Α	212	27.304	55.851	47.600	1.00 56.68
MOTA	1639	CD	ARG	Α	212	27.035	57.020	46.647	1.00 73.87
ATOM	1640	NE	ARG			26.884	58.345	47.270	1.00 68.27
ATOM	1641	CZ	ARG				59.200	47.037	1.00 85.21
ATOM	1642		ARG			24.847	58.918	46.205	1.00 40.25
ATOM	1643		ARG			25.860	60.383	47.666	1.00 87.08
MOTA	1644	N	GLN			26.137	52.645	45.851	1.00 28.72
ATOM	1645	CA	GLN			26.400	51.238	45.722	1.00 28.72
MOTA	1646	C	GLN			27.663	50.855	46.475	1.00 34.58
MOTA	1647	0	GLN				51.434	46.220	1.00 36.75
ATOM	1648	CB	GLN				50.838	44.251	1.00 30.88
MOTA	1649	CG	GLN			26.268	49.331	44.057	1.00 42.35
ATOM	1650	CD	GLN				48.872	42.780	1.00 61.33
MOTA	1651		GLN				47.845	42.754	1.00 55.13
MOTA	1652	NE2	GLN	A	213	26.679	49.658	41.724	1.00 65.90

ATOM	1653	N			214	27.553	49.880	47.413	1.00 28.70
MOTA	1654	CA			214	28.697	49.455	48.202	1.00 25.96
MOTA	1655	C			214	29.065	48.017	47.970	1.00 29.90
MOTA	1656	0			214	29.925	47.468	48.651	1.00 30.32
MOTA	1657	CB			214	28.495	49.694	49.685	1.00 27.31
MOTA	1658	CG1	ILE	A	214	27.292	48.905	50.161	1.00 27.09
ATOM	1659	CG2	ILE	A	214	28.191	51.159	49.913	1.00 28.84
ATOM	1660	CD1	ILE	A	214	27.092	49.010	51.667	1.00 24.71
MOTA	1661	N	GLY	A	215	28.393	47.400	47.020	1.00 27.12
ATOM	1662	CA	GLY	Α	215	28.660	45.988	46.697	1.00 28.78
MOTA	1663	С			215	27.921	45.548	45.441	1.00 33.65
ATOM	1664	0			215	26.945	46.193	45.060	1.00 37.47
MOTA	1665	N			216	28.375	44.451	44.813	1.00 31.69
ATOM	1666	CA			216	27.777	43.940	43.596	1.00 31.17
ATOM	1667	C			216	26.293	43.725	43.726	1.00 34.01
ATOM	1668	0			216	25.549	43.848	42.762	1.00 37.18
MOTA	1669	CB			216	28.441	42.615	43.281	1.00 32.10
MOTA	1670	CG			216	29.337	42.292		1.00 36.37
MOTA	1671	CD			216	29.255	43.453	45.426	1.00 31.79
MOTA	1672	N			217	25.856	43.409	44.918	1.00 23.91
ATOM	1673	CA			217	24.440	43.187	45.108	1.00 24.07
MOTA	1674	C	ARG	A	217	23.912	44.068	46.225	1.00 31.39
ATOM	1675	0	ARG	Α	217	22.863	43.803	46.826	1.00 30.65
ATOM	1676	CB	ARG	Α	217	24.150	41.717	45.382	1.00 26.69
MOTA	1677	CG	ARG	A	217	25.327	40.950	46.011	1.00 38.32
ATOM	1678	CD	ARG	A	217	24.955	39.534	46.476	1.00 26.86
ATOM	1679	NE	ARG	A	217	26.022	38.855	47.227	1.00 27.11
ATOM	1680	CZ	ARG	A	217	26.038	37.550	47.494	1.00 36.87
ATOM	1681	NH1	ARG	A	217	25.070	36.732	47.082	1.00 29.90
ATOM	1682	NH2				27.053	37.051	48.188	1.00 34.57
ATOM	1683	N			218	24.669	45.121	46.503	1.00 24.92
ATOM	1684	CA			218	24.283	45.994	47.561	1.00 24.28
ATOM	1685	C			218	24.407	47.495	47.295	1.00 33.11
ATOM	1686	ō			218	25.462	48.009	46.938	1.00 32.08
MOTA	1687	СВ			218	25.099	45.694	48.842	1.00 25.29
ATOM	1688	OG1	THR			25.110	44.320	49.114	1.00 29.80
MOTA	1689	CG2	THR			24.550	46.489	50.042	1.00 19.82
ATOM	1690	N	LEU			23.294	48.168	47.577	1.00 30.26
ATOM	1691	CA	LEU			23.138	49.593	47.547	1.00 30.69
ATOM	1692	C	LEU			22.755	50.013	48.964	1.00 35.22
ATOM	1693	ō	LEU			22.157	49.227	49.717	1.00 33.12
ATOM	1694	СВ	LEU			21.963	49.979	46.668	1.00 31.36
ATOM	1695	CG	LEU			22.394	50.547	45.344	1.00 35.12
ATOM	1696		LEU			23.295	49.545	44.652	1.00 36.05
ATOM	1697		LEU			21.135	50.798	44.548	1.00 32.80
ATOM	1698	N	VAL			23.089	51.251	49.315	1.00 33.70
MOTA	1699	CA	VAL			22.738	51.837	50.597	1.00 33.58
MOTA	1700	C	VAL			21.790	52.940	50.279	1.00 35.57
MOTA	1701	0	VAL			22.097	53.756	49.429	1.00 34.74
ATOM	1702	CB	VAL			23.874	52.503	51.357	1.00 38.98
MOTA	1703		VAL			23.695	52.251	52.848	1.00 37.14
ATOM	1704	CG2	VAL			25.228	52.020	50.860	1.00 41.00
MOTA	1705	N	TRP			20.664	52.958	50.956	1.00 29.92
ATOM	1706	CA	TRP	A	221	19.675	53.989	50.747	1.00 29.02
ATOM	1707	C	TRP	A	221	19.466	54.775	52.008	1.00 31.38
MOTA	1708	0	TRP	A	221	19.437	54.232	53.115	1.00 29.61
MOTA	1709	CB	TRP	Α	221	18.325	53.351	50.420	1.00 26.55
ATOM	1710	CG	TRP	A	221	18.371	52.586	49.153	1.00 27.34

MOTA	1711		TRP			18.817	51.334	48.993	1.00 29.93
MOTA	1712	CD2	TRP			17.949	53.044	47.866	1.00 28.26
ATOM	1713	NE1	TRP			18.686	50.951	47.687	1.00 28.94
MOTA	1714	CE2	TRP			18.158	51.980	46.969	1.00 31.62
MOTA	1715	CE3	TRP	A	221	17.404	54.250	47.397	1.00 29.01
MOTA	1716	CZ2	TRP	A	221	17.841	52.093	45.616	1.00 31.03
MOTA	1717	CZ3	TRP	Α	221	17.093	54.351	46.059	1.00 29.62
MOTA	1718	CH2	TRP	Α	221	17.319	53.284	45.177	1.00 29.13
ATOM	1719	N	SER	Α	222	19.277	56.047	51.843	1.00 27.55
MOTA	1720	CA	SER	A	222	19.002	56.889	52.991	1.00 28.55
MOTA	1721	С	SER	Α	222	18.770	58.317	52.528	1.00 37.74
MOTA	1722	0	SER	A	222	18.945	58.649	51.341	1.00 36.03
ATOM	1723	CB	SER	Α	222	20.012	56.786	54.145	1.00 25.75
ATOM	1724	OG	SER	Α	222	21.148	57.591	53.888	1.00 32.66
ATOM	1725	N	GLU	Α	223	18.423	59.174	53.446	1.00 30.01
ATOM	1726	CA	GLU	Α	223	18.297	60.498	52.991	1.00 28.87
ATOM	1727	С	GLU	A	223	19.713	60.922	52.600	1.00 34.38
MOTA	1728	0	GLU	Α	223	20.731	60.373	53.065	1.00 29.90
ATOM	1729	СВ	GLU			17.732	61.411	54.081	1.00 29.74
ATOM	1730	CG	GLU	Α	223	16.184	61.485	54.050	1.00 36.16
MOTA	1731	CD	GLU			15.638	62.563	54.967	1.00 64.35
ATOM	1732		GLU			15.376	63.690	54.583	1.00 29.91
ATOM	1733		GLU			15.465	62.169	56.219	1.00 46.08
ATOM	1734	N	LYS			19.765	61.913	51.722	1.00 33.08
ATOM	1735	CA	LYS			21.006	62.468	51.231	1.00 32.76
ATOM	1736	C	LYS			22.054	62.700	52.335	1.00 31.27
ATOM	1737	ō	LYS			23.257	62.463	52.195	1.00 29.06
ATOM	1738	СВ	LYS			20.655	63.795	50.547	1.00 36.11
ATOM	1739	CG	LYS			21.845	64.676	50.237	1.00 70.27
ATOM	1740	CD	LYS			21.558	65.670	49.112	1.00 95.60
ATOM	1741	CE	LYS			22.191	65.293	47.774	1.00100.00
ATOM	1742	NZ	LYS			21.521	65.907	46.613	1.00100.00
ATOM	1743	N	GLU			21.595	63.197	53.449	1.00 27.65
MOTA	1744	CA	GLU			22.466	63.510	54.560	1.00 30.22
ATOM	1745	C	GLU			23.173	62.347	55.232	1.00 34.65
ATOM	1746	0	GLU			24.093	62.573	56.012	1.00 32.34
ATOM	1747	CB	GLU			21.691	64.278	55.645	1.00 31.76
MOTA	1748	CG	GLU			21.276	65.694	55.193	1.00 42.16
ATOM	1749	CD	GLU			19.998	65.742	54.394	1.00 65.10
ATOM	1750		GLU			19.395	66.779	54.196	1.00 45.97
ATOM	1751		GLU			19.599	64.571	53.932	1.00 45.63
ATOM	1752	N	GLN			22.752	61.120		1.00 33.60
ATOM	1753	CA	GLN			23.388	60.001	55.655	1.00 34.29
ATOM	1754	C	GLN			24.119	58.992	54.747	1.00 37.04
ATOM	1755	0	GLN			24.817	58.061	55.198	1.00 30.70
ATOM	1756		GLN			22.319	59.313	56.529	1.00 35.21
ATOM	1757	CG	GLN			22.053	60.029	57.866	1.00 34.89
ATOM	1758	CD	GLN			21.280	61.349	57.783	1.00 40.09
ATOM	1759		GLN			21.713	62.359	58.344	1.00 40.09
MOTA	1760		GLN			20.114	61.346	57.153	1.00 40.30
ATOM	1761	nez N	VAL			23.964	59.180	53.451	1.00 27.20
ATOM	1762	CA	VAL				58.285		1.00 37.01
						24.569		52.468	
ATOM	1763		VAL VAL			26.052	57.969	52.615	1.00 39.63
ATOM	1764					26.459	56.809	52.699	1.00 39.37
ATOM ATOM	1765		VAL			24.259	58.730	51.039	1.00 45.58
	1766 1767		VAL			25.230	58.083	50.063	1.00 44.41
ATOM	1767		VAL			22.842	58.321	50.671	1.00 47.37
ATOM	1768	N	GLU	A	228	26.869	59.005	52.563	1.00 31.40

ATOM	1769	CA	GLU	А	228	28.291	58.805	52.664	1.00 32.15
MOTA	1770	С			228	28.689	57.981	53.870	1.00 36.09
ATOM	1771	0			228	29.400	56.995	53.735	1.00 33.16
MOTA	1772	СВ			228	29.031	60.144	52.584	1.00 34.27
ATOM	1773	CG			228	28.993	60.704	51.145	1.00 69.42
									1.00 98.31
MOTA	1774	CD			228	29.273	59.645	50.108	
ATOM	1775		GLU			30.359	59.101	50.017	1.00 94.37
ATOM	1776	OE2			228	28.238	59.362	49.343	1.00 74.62
MOTA	1777	N			229	28.202	58.433	55.044	1.00 33.36
ATOM	1778	CA			229	28.419	57.808	56.348	1.00 30.47
MOTA	1779	C			229	27.897	56.378	56.335	1.00 27.55
MOTA	1780	0	LYS	А	229	28.545	55.446	56.780	1.00 28.17
MOTA	1781	CB	LYS	A	229	27.650	58.563	57.415	1.00 31.12
MOTA	1782	CG	LYS	Α	229	28.477	59.545	58.209	1.00 55.25
ATOM	1783	CD	LYS	A	229	27.835	59.871	59.550	1.00 64.16
ATOM	1784	CE	LYS	Α	229	28.242	58.886	60.642	1.00 63.01
ATOM	1785	NZ	LYS	Α	229	29.694	58.883	60.899	1.00 59.75
ATOM	1786	N			230	26.700	56.201	55.838	1.00 22.45
ATOM	1787	CA			230	26.198	54.864	55.798	1.00 22.46
ATOM	1788	C			230	27.053	54.034	54.872	1.00 27.74
ATOM	1789	ō			230	27.407	52.894	55.125	1.00 24.67
ATOM	1790	CB	SER			24.806	54.881	55.263	1.00 23.20
								56.004	1.00 25.20
MOTA	1791	OG			230	24.116	55.844		
MOTA	1792	N	ALA			27.371	54.626	53.759	1.00 26.64
MOTA	1793	CA	ALA			28.173	53.922	52.803	1.00 28.26
MOTA	1794	C			231	29.482	53.482	53.455	1.00 35.74
MOTA	1795	0	ALA			30.004	52.384	53.260	1.00 38.85
MOTA	1796	CB			231	28.386	54.807	51.575	1.00 28.68
MOTA	1797	N	TYR			30.040	54.332	54.280	1.00 28.97
MOTA	1798	CA			232	31.288	53.956	54.919	1.00 25.66
MOTA	1799	С	TYR			31.106	52.830	55.956	1.00 26.63
ATOM	1800	0	TYR			31.764	51.786	55.952	1.00 24.11
ATOM	1801	CB			232	31.878	55.221	55.590	1.00 26.53
ATOM	1802	CG	TYR	A	232	33.048	54.883	56.450	1.00 30.29
ATOM	1803	CD1	TYR	Α	232	34.327	54.751	55.908	1.00 30.47
MOTA	1804	CD2	TYR			32.868	54.647	57.812	1.00 34.13
MOTA	1805	CE1				35.417	54.417	56.707	1.00 26.95
MOTA	1806	CE2	TYR	A	232	33.943	54.289	58.629	1.00 34.94
MOTA	1807	CZ	TYR	A	232	35.214	54.187	58.066	1.00 44.35
MOTA	1808	OH	TYR	A	232	36.267	53.838	58.863	1.00 56.64
MOTA	1809	N	GLU	A	233	30.179	53.101	56.854	1.00 26.62
MOTA	1810	CA	GLU	A	233	29.848	52.255	57.979	1.00 27.40
MOTA	1811	C	GLU	A	233	29.586	50.785	57.683	1.00 28.97
ATOM	1812	0	GLU	A	233	29.998	49.912	58.455	1.00 27.06
ATOM	1813	CB	GLU	Α	233	28.713	52.881	58.849	1.00 27.79
MOTA	1814	CG	GLU	A	233	28.710	52.367	60.318	1.00 32.42
ATOM	1815	CD	GLU	A	233	29.479	53.250	61.292	1.00 34.47
MOTA	1816	OE1	GLU			29.548	54.465	61.172	1.00 47.34
MOTA	1817	OE2	GLU	Α	233	30.072	52.579	62.261	1.00 24.38
MOTA	1818	N	PHE			28.882	50.539	56.585	1.00 23.50
MOTA	1819	CA	PHE			28.512	49.208	56.200	1.00 21.67
MOTA	1820	C	PHE			29.297	48.665	55.053	1.00 27.27
ATOM	1821	0	PHE			28.810	47.809	54.321	1.00 31.39
MOTA	1822	СВ	PHE			27.040	49.233	55.806	1.00 23.23
	1823	CG	PHE			26.222	49.890	56.874	1.00 23.23
MOTA	1824		PHE			26.462	49.613	58.221	1.00 24.19
ATOM								56.532	
ATOM	1825		PHE			25.214	50.788	59.223	1.00 25.46 1.00 23.19
MOTA	1826	CET	PHE	A	434	25.696	50.207	37.443	1.00 23.19

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ATOM	1827		PHE			24.461	51.411	57.526	1.00 28.00
MOTA	1828	CZ			234	24.697	51.113	58.869	1.00 23.00
MOTA	1829	N			235	30.508	49.151	54.883	1.00 27.12
ATOM	1830	CA	SER	Α	235	31.342	48.689	53.787	1.00 25.76
ATOM	1831	C	SER	Α	235	31.469	47.166	53.731	1.00 31.87
ATOM	1832	0	SER	Α	235	31.329	46.571	52.658	1.00 31.51
ATOM	1833	СВ			235	32.706	49.348	53.801	1.00 23.97
ATOM	1834	OG			235	33.403	49.017	54.987	1.00 31.36
ATOM	1835	N			236	31.715			
							46.554	54.905	1.00 24.57
MOTA	1836	CA			236	31.883	45.120	55.032	1.00 23.90
MOTA	1837	С			236	30.683	44.241	54.687	1.00 26.57
MOTA	1838	0	GLU	Α	236	30.735	43.032	54.900	1.00 26.86
MOTA	1839	CB	GLU	Α	236	32.348	44.786	56.440	1.00 25.38
ATOM	1840	CG	GLU	Α	236	33.520	45.662	56.873	1.00 34.31
ATOM	1841	CD	GLU	Α	236	33.663	45.666	58.366	1.00 73.76
ATOM	1842	OE1				32.739	45.910	59.133	1.00 40.32
ATOM	1843	OE2			236	34.876	45.354	58.750	1.00 83.10
ATOM	1844	N			237	29.610	44.828	54.150	1.00 20.07
ATOM	1845	CA			237	28.437	44.060	53.819	1.00 18.84
MOTA	1846	C			237	28.713	42.900	52.887	1.00 27.55
ATOM	1847	0	THR	Α	237	28.342	41.774	53.189	1.00 29.80
MOTA	1848	CB	THR	A	237	27.276	44.944	53.339	1.00 27.61
MOTA	1849	OG1	THR	Α	237	26.930	45.851	54.347	1.00 26.27
ATOM	1850	CG2	THR	А	237	26.046	44.143	52.933	1.00 20.18
MOTA	1851	N	GLU	А	238	29.346	43.140	51.747	1.00 24.98
ATOM	1852	CA	GLU	Α	238	29.605	42.022	50.840	1.00 25.71
ATOM	1853	С	GLU	Α	238	30.408	40.914	51.463	1.00 27.50
ATOM	1854	0			238	30.091	39.740	51.324	1.00 30.32
ATOM	1855	CB	GLU			30.169	42.373	49.467	1.00 30.52
ATOM		CG							
	1856		GLU			30.292	41.101	48.580	1.00 31.12
MOTA	1857	CD	GLU			29.006	40.489	48.048	1.00 29.47
MOTA	1858		GLU			27.929	41.034	47.978	1.00 38.32
MOTA	1859	OE2				29.179	39.289	47.615	1.00 42.12
MOTA	1860	N	SER			31.452	41.269	52.164	1.00 21.93
MOTA	1861	CA	SER	A	239	32.224	40.232	52.797	1.00 21.40
ATOM	1862	C	SER	Α	239	31.377	39.410	53.774	1.00 26.79
ATOM	1863	0	SER	Α	239	31.519	38.208	53.878	1.00 26.27
ATOM	1864	CB	SER	Α	239	33.430	40.788	53.514	1.00 24.31
ATOM	1865	OG	SER	Α	239	32.995	41.369	54.724	1.00 36.29
ATOM	1866	N	MET	А	240	30.485	40.044	54.530	1.00 25.33
ATOM	1867	CA	MET			29.664	39.280	55.453	1.00 21.61
ATOM	1868	C	MET			28.750	38.383	54.688	
ATOM	1869	ō	MET			28.580	37.213	55.018	1.00 29.19
MOTA	1870								
		CB	MET			28.835	40.185	56.336	1.00 23.33
MOTA	1871	CG	MET			29.742	40.959	57.255	1.00 26.34
ATOM	1872	SD	MET			28.75 <b>7</b>	42.096	58.238	1.00 30.69
ATOM	1873	CE	MET	A	240	29.893	42.395	59.603	1.00 27.76
ATOM	1874	N	LEU	Α	241	28.156	38.934	53.644	1.00 21.61
MOTA	1875	CA	LEU	Α	241	27.256	38.144	52.818	1.00 23.24
ATOM	1876	C	LEU	A	241	27.981	36.906	52.359	1.00 29.61
ATOM	1877	0	LEU			27.435	35.823	52.366	1.00 32.57
ATOM	1878	CB	LEU			26.831	38.927	51.573	1.00 24.85
MOTA	1879	CG	LEU			25.516	39.666	51.717	1.00 24.05
ATOM	1880		LEU			25.434			1.00 31.80
							40.804	50.698	
MOTA	1881		LEU			24.379	38.694	51.460	1.00 35.10
ATOM	1882	N	LYS			29.244	37.051	51.954	1.00 28.99
ATOM	1883	CA	LYS			29.979	35.880	51.488	1.00 27.43
ATOM	1884	C	LYS	A	242	30.170	34.839	52.556	1.00 26.46

MOTA	1885	0	LYS			30.026	33.662	52.290	1.00 25.83
ATOM	1886	CB			242	31.267	36.205	50.763	1.00 30.42
MOTA	1887	CG	LYS			31.015	36.447	49.291	1.00 32.91
MOTA	1888	CD	LYS	Α	242	32.171	37.142	48.591	1.00 59.75
ATOM	1889	CE	LYS	A	242	31.815	38.564	48.172	1.00 63.56
ATOM	1890	NZ	LYS	A	242	32.262	38.944	46.821	1.00 60.62
ATOM	1891	N	ILE	Α	243	30.490	35.282	53.766	1.00 21.79
ATOM	1892	CA	ILE	Α	243	30.698	34.341	54.858	1.00 22.45
ATOM	1893	С	ILE	Α	243	29.405	33.594	55.138	1.00 24.79
ATOM	1894	0			243	29.362	32.375	55.319	1.00 24.38
ATOM	1895	CB			243	31.237	35.038	56.109	1.00 25.48
ATOM	1896	CG1				32.592	35.666	55.815	1.00 27.23
ATOM	1897	CG2			243	31.354	34.044	57.263	1.00 24.60
ATOM	1898		ILE			33.202	36.392	57.016	1.00 24.23
ATOM	1899	N	ALA			28.339	34.372	55.128	1.00 19.81
ATOM	1900	CA	ALA			27.047	33.837	55.384	1.00 19.55
		C	ALA			26.690	32.721	54.413	1.00 13.33
ATOM	1901							54.790	1.00 27.11
MOTA	1902	0	ALA			26.100	31.692		
ATOM	1903	CB	ALA			26.031	34.969	55.400	1.00 19.21
ATOM	1904	N	GLU			27.066	32.933	53.146	1.00 27.29
ATOM	1905	CA	GLU			26.761	31.949	52.111	1.00 25.68
MOTA	1906	C	GLU			27.436	30.651	52.396	1.00 30.57
ATOM	1907	0	GLU			26.869	29.580	52.183	1.00 30.82
MOTA	1908	CB	GLU			27.084	32.415	50.691	1.00 25.71
MOTA	1909	CG	GLU			25.914	33.199	50.106	1.00 31.03
ATOM	1910	CD	GLU			26.225	33.838	48.794	1.00 38.47
ATOM	1911		GLU			27.175	34.588	48.613	1.00 36.65
ATOM	1912	OE2	GLU			25.353	33.507	47.876	1.00 42.50
ATOM	1913	Ŋ	ASP			28.649	30.778	52.887	1.00 25.43
MOTA	1914	CA	ASP			29.451	29.643	53.212	1.00 26.46
MOTA	1915	C	ASP			28.875	28.913	54.410	1.00 31.36
MOTA	1916	0	ASP	Α	246	28.969	27.701	54.571	1.00 33.32
MOTA	1917	CB	ASP			30.900	30.080	53.480	1.00 31.18
MOTA	1918	CG	ASP	A	246	31.794	28.904	53.736	1.00 65.05
MOTA	1919		ASP			32.175	28.171	52.842	1.00 74.67
MOTA	1920	OD2	ASP	A	246	32.085	28.726	55.010	1.00 73.86
MOTA	1921	N	LEU	A	247	28.253	29.651	55.267	1.00 24.37
ATOM	1922	CA	LEU	A	247	27.713	29.020	56.425	1.00 24.71
ATOM	1923	C	LEU	А	247	26.326	28.469	56.212	1.00 27.23
ATOM	1924	0	LEU	A	247	26.025	27.388	56.709	1.00 29.85
ATOM	1925	CB	LEU	Α	247	27.715	29.984	57.653	1.00 25.90
ATOM	1926	CG	LEU	A	247	29.069	30.647	57.905	1.00 28.01
MOTA	1927	CD1	LEU	A	247	28.934	31.696	58.983	1.00 27.01
ATOM	1928	CD2	LEU	A	247	30.051	29.603	58.370	1.00 30.42
ATOM	1929	N	GLY	A	248	25.454	29.203	55.517	1.00 23.34
ATOM	1930	CA	GLY	Α	248	24.102	28.671	55.384	1.00 23.65
MOTA	1931	С	GLY	Α	248	23.720	28.204	53.993	1.00 27.51
ATOM	1932	0	GLY	Α	248	22.598	27.784	53.765	1.00 24.78
MOTA	1933	N	GLY	Α	249	24.635	28.283	53.047	1.00 23.68
MOTA	1934	CA	GLY	A	249	24.250	27.882	51.729	1.00 23.61
MOTA	1935	C	GLY			23.951	29.127	50.944	1.00 31.96
ATOM	1936	0	GLY			23.996	30.204	51.471	1.00 30.39
ATOM	1937	N	PRO			23.640	28.981	49.674	1.00 37.24
ATOM	1938	CA	PRO			23.359	30.099	48.806	1.00 38.84
ATOM	1939	C	PRO			22.317	31.103	49.290	1.00 37.99
ATOM	1940	ō	PRO			21.289	30.775	49.903	1.00 35.02
ATOM	1941	СВ	PRO			22.830	29.484	47.504	1.00 41.32
ATOM	1942	CG	PRO			22.393	28.072	47.831	1.00 44.27
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MOTA	1943	CD			250	23.026	27.730	49.162	1.00 40.21
ATOM	1944	N	TYR	A	251	22.616	32.351	48.956	1.00 31.18
MOTA	1945	CA	TYR	Α	251	21.758	33.456	49.230	1.00 26.41
MOTA	1946	С	TYR	Α	251	20.802	33.418	48.067	1.00 27.76
ATOM	1947	0	TYR	Α	251	21.234	33.528	46.926	1.00 27.95
ATOM	1948	CB			251	22.601	34.723	49.143	1.00 25.32
	1949	CG			251	21.787	35.954	49.397	1.00 28.06
ATOM									1.00 29.60
MOTA	1950		TYR			21.368	36.246	50.695	
MOTA	1951		TYR			21.437	36.831	48.367	1.00 27.85
MOTA	1952	CE1	TYR	Α	251	20.618	37.392	50.963	1.00 28.45
MOTA	1953	CE2	TYR	Α	251	20.687	37.982	48.616	1.00 27.14
ATOM	1954	CZ	TYR	Α	251	20.292	38.270	49.926	1.00 25.89
ATOM	1955	OH	TYR	Α	251	19.551	39.392	50.199	1.00 20.56
ATOM	1956	N			252	19.519	33.243	48.328	1.00 24.99
	1957	CA			252	18.535	33.115	47.251	1.00 25.59
ATOM									
MOTA	1958	C			252	17.696	34.351	46.925	1.00 28.69
ATOM	1959	0			252	16.868	34.320	46.014	1.00 25.00
MOTA	1960	CB	VAL	A	252	17.562	31.979	47.627	1.00 30.01
ATOM	1961	CG1	VAL	Α	252	18.288	30.668	47.953	1.00 29.63
MOTA	1962	CG2	VAL	Α	252	16.646	32.391	48.789	1.00 29.32
MOTA	1963	N	TRP	Α	253	17.858	35.425	47.689	1.00 25.81
ATOM	1964	CA	TRP	А	253	17.046	36.599	47.504	1.00 23.18
ATOM	1965	С	TRP	Α	253	17.432	37.542	46.388	1.00 28.15
ATOM	1966	0			253	16.655	38.427	46.037	1.00 27.55
ATOM	1967	СВ			253	16.824	37.329	48.813	1.00 19.42
	1968	CG			253	16.418	36.383	49.878	1.00 20.56
ATOM								50.673	1.00 20.30
MOTA	1969	CD1			253	17.256	35.687		
ATOM	1970	CD2			253	15.087	36.014	50.249	1.00 19.71
MOTA	1971		TRP			16.525	34.902	51.541	1.00 22.22
ATOM	1972	CE2	TRP	A	253	15.192	35.10 <i>9</i>	51.309	1.00 22.80
MOTA	1973	CE3	TRP	Α	253	13.829	36.398	49.817	1.00 21.50
MOTA	1974	CZ2	TRP	A	253	14.063	34.577	51.925	1.00 23.69
MOTA	1975	CZ3	TRP	A	253	12.709	35.878	50.412	1.00 24.31
ATOM	1976	CH2	TRP	Α	253	12.823	34.974	51.466	1.00 24.84
MOTA	1977	N	GLY	Α	254	18.625	37.367	45.843	1.00 25.04
ATOM	1978	CA			254	19.102	38.192	44.739	1.00 26.11
ATOM	1979	C			254	19.864	39.404	45.200	1.00 31.09
	1980	ō			254	21,098	39.431	45.258	1.00 34.73
ATOM									1.00 29.08
ATOM	1981	N			255	19.098	40.410	45.535	
MOTA	1982	CA			255	19.648	41.666	45.995	1.00 29.63
MOTA	1983	С			255	19.728	41.712	47.507	1.00 29.64
MOTA	1984	0			255	18.887	41.114	48.196	1.00 30.51
MOTA	1985	CB	GLN	A	255	18.784	42.833	45.468	1.00 31.78
ATOM	1986	CG	GLN	Α	255	19.424	44.221	45.672	1.00 44.26
MOTA	1987	CD	GLN	A	255	20.587	44.500	44.732	1.00 54.96
ATOM	1988	OE1	GLN	Α	255	21.252	45.543	44.825	1.00 36.97
ATOM	1989	NE2	GLN	А	255	20.846	43.559	43.829	1.00 52.17
ATOM	1990	N			256	20.763	42.399	47.992	1.00 27.13
	1991	CA			256	20.978	42.641	49.402	1.00 25.23
MOTA									
ATOM	1992	C			256	21.188	44.115	49.648	1.00 25.37
MOTA	1993	0			256	22.317	44.554	49.816	1.00 25.89
MOTA	1994	CB			256	22.034	41.819	50.137	1.00 25.95
MOTA	1995	CG			256	21.872	42.059	51.629	1.00 24.48
ATOM	1996	CD1	TYR	A	256	20.961	41.306	52.373	1.00 25.11
MOTA	1997	CD2	TYR	A	256	22.604	43.053	52.281	1.00 24.57
ATOM	1998	CB1	TYR	A	256	20.779	41.529	53.738	1.00 22.81
ATOM	1999	CB2	TYR	A	256	22.423	43.302	53.640	1.00 23.52
ATOM	2000	CZ			256	21.523	42.526	54.369	1.00 27.26
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ATOM	2001	OH			256	21.356	42.772	55.707	1.00 20.88
ATOM	2002	N			257	20.080	44.863	49.634	
MOTA	2003	CA	ASP			20.118	46.288	49.871	1.00 19.26
MOTA	2004	С			257	19.947	46.597	51.343	1.00 27.05
MOTA	2005	0	ASP			19.324	45.823	52.093	1.00 26.42
ATOM	2006	CB	ASP	Α	257	19.064	47.071	49.069	1.00 19.63
MOTA	2007	CG	ASP	A	257	19.470	47.325	47.621	1.00 38.29
ATOM	2008	OD1	ASP	Α	257	20.533	46.922	47.146	1.00 35.24
MOTA	2009	OD2	ASP	Α	257	18.557	47.994	46.914	1.00 33.46
ATOM	2010	N	LEU	A	258	20.488	47.772	51.708	1.00 25.54
MOTA	2011	CA	LEU	Α	258	20.451	48.319	53.050	1.00 23.91
ATOM	2012	С	LEU	Α	258	19.752	49.651	53.020	1.00 27.43
ATOM	2013	0	LEU	А	258	20.058	50.464	52.152	1.00 26.91
MOTA	2014	СВ	LEU			21.861	48.551	53.612	1.00 23.00
ATOM	2015	CG	LEU			22.542	47.293	54.130	1.00 24.65
ATOM	2016		LEU			23.897	47.652	54.753	1.00 21.61
ATOM	2017		LEU			21.650	46.669	55.192	1.00 27.74
ATOM	2018	N			259	18.824	49.843	53.974	1.00 22.63
	2019	CA			259	18.083	51.075	54.135	1.00 22.66
ATOM					259		51.673	55.530	1.00 25.16
ATOM	2020	C				18.266			
ATOM	2021	0	LEU			17.868	51.030	56.505	1.00 24.40 1.00 23.11
ATOM	2022	CB	LEU			16.597	50.897	53.874	
ATOM	2023	CG	LEU			15.825	52.166	54.225	1.00 31.10
ATOM	2024		LEU			16.317	53.352	53.395	1.00 30.78
ATOM	2025		LEU			14.350	51.938	53.966	1.00 36.76
MOTA	2026	N			260	18.858	52.889	55.615	1.00 18.62
ATOM	2027	CA	VAL			19.068	53.580	56.888	1.00 19.24
ATOM	2028	C	VAL			17.897	54.493	57.154	1.00 26.41
ATOM	2029	0			260	17.739	55.527	56.516	1.00 28.56
ATOM	2030	CB	VAL			20.372	54.347	56.891	1.00 22.59
MOTA	2031		VAL			20.683	54.811	58.307	1.00 23.06
ATOM	2032		VAL			21.488	53.433	56.439	1.00 21.80
ATOM	2033	N			261	17.043	54.091	58.071	1.00 21.39
ATOM	2034	CA	LEU			15.837	54.831	58.380	1.00 21.91
ATOM	2035	C	LEU			16.041	56.017	59.301	1.00 26.50
MOTA	2036	0	LEU			17.140	56.271	59.778	1.00 24.09
MOTA	2037	CB			261	14.843	53.867	59.040	1.00 22.05
MOTA	2038	CG	LEU			14.170	53.020	57.974	1.00 28.76
MOTA	2039		LEU			14.886	51.690	57.819	1.00 30.80
ATOM	2040		LEU			12.683	52.859	58.230	1.00 35.84
MOTA	2041	N			262	14.946	56.724	59.565	1.00 27.39
ATOM	2042	CA	PRO			14.989	57.844	60.482	1.00 24.71
ATOM	2043	С	PRO			15.240	57.299	61.883	1.00 29.27
MOTA	2044	0			262	14.976	56.121	62.194	1.00 23.29
MOTA	2045	CB	PRO			13.633	58.545	60.417	1.00 25.90
MOTA	2046	CG			262	12.874	57.922	59.250	1.00 34.11
MOTA	2047	CD	PRO			13.695	56.734	58.755	1.00 29.92
MOTA	2048	N	PRO			15.768	58.169	62.739	1.00 24.50
ATOM	2049	CA	PRO			16.097	57.785	64.103	1.00 22.41
MOTA	2050	C			263	14.989	57.128	64.915	1.00 23.03
MOTA	2051	0	PRO			15.285	56.382	65.848	1.00 24.15
MOTA	2052	CB	PRO			16.661	59.038	64.775	1.00 23.47
ATOM	2053	CG	PRO	A	263	16.861	60.088	63.682	1.00 26.06
ATOM	2054	CD			263	16.162	59.575	62.426	1.00 22.82
MOTA	2055	N	SER	A	264	13.719	57.369	64.577	1.00 20.93
MOTA	2056	CA			264	12.600	56.767	65.319	1.00 20.14
MOTA	2057	С	SER	A	264	12.401	55.293	64.989	1.00 23.06
MOTA	2058	0	SER	A	264	11.574	54.623	65.602	1.00 23.10

MOTA	2059	CB	SER	A	264	11.281	57.498	65.183	1.00 23.65
MOTA	2060	OG	SER	A	264	10.912	57.500	63.823	1.00 21.88
MOTA	2061	N	PHE	Α	265	13.175	54.762	64.054	1.00 17.44
MOTA	2062	CA	PHE	Α	265	12.995	53.336	63.775	1.00 16.88
ATOM	2063	С	PHE	A	265	13.155	52.576	65.093	1.00 19.17
MOTA	2064	0	PHE	A	265	14.149	52.730	65.785	1.00 19.42
MOTA	2065	CB	PHE	A	265	13.962	52.852	62.696	1.00 18.72
MOTA	2066	CG	PHE	A	265	13.632	51.450	62.311	1.00 20.49
MOTA	2067	CD1	PHE	A	265	12.412	51.173	61.701	1.00 24.10
MOTA	2068	CD2	PHE	A	265	14.527	50.413	62.564	1.00 23.76
ATOM	2069	CE1	PHE	A	265	12.088	49.869	61.342	1.00 27.40
MOTA	2070	CE2	PHE	Α	265	14.210	49.100	62.218	1.00 28.74
MOTA	2071	CZ	PHE	Α	265	12.987	48.833	61.605	1.00 27.12
MOTA	2072	N	PRO	A	266	12.158	51.803	65.451	1.00 18.02
ATOM	2073	CA	PRO	Α	266	12.110	51.080	66.718	1.00 18.74
MOTA	2074	C	PRO	A	266	13.107	49.965	67.013	1.00 20.27
MOTA	2075	0	PRO	A	266	13.293	49.635	68.170	1.00 15.77
MOTA	2076	CB	PRO	A	266	10.696	50.520	66.822	1.00 20.13
ATOM	2077	CG	PRO	Α	266	10.127	50.546	65.416	1.00 23.78
MOTA	2078	CD	PRO	A	266	10.967	51.531	64.615	1.00 19.11
MOTA	2079	N	TYR	Α	267	13.706	49.338	66.001	1.00 20.63
MOTA	2080	CA	TYR	A	267	14.644	48.224	66.235	1.00 21.13
MOTA	2081	С	TYR	Α	267	16.031	48.497	65.651	1.00 22.74
MOTA	2082	0	TYR	A	267	16.215	49.455	64.905	1.00 21.89
MOTA	2083	CB	TYR	A	267	14.099	46.909	65.603	1.00 22.60
MOTA	2084	CG	TYR	Α	267	12.764	46.544	66.176	1.00 19.52
MOTA	2085	CD1				12.726	45.858	67.389	1.00 19.63
MOTA	2086	CD2	TYR	A	267	11.572	46.933	65.560	1.00 16.80
ATOM	2087	CE1	TYR			11.507	45.541	67.987	1.00 21.00
MOTA	2088	CE2	TYR	Α	267	10.345	46.631	66.151	1.00 16.26
MOTA	2089	CZ	TYR	A	267	10.322	45.924	67.360	1.00 21.79
MOTA	2090	OH	TYR	A	267	9.143	45.605	67.993	1.00 24.21
MOTA	2091	N	GLY	Α	268	17.000	47.617	65.975	1.00 19.60
ATOM	2092	CA			268	18.352	47.747	65.451	1.00 19.06
ATOM	2093	С			268	18.283	47.578	63.946	1.00 21.42
ATOM	2094	0			268	18.978	48.228	63.181	1.00 22.34
ATOM	2095	N			269	17.396	46.686	63.510	1.00 20.52
ATOM	2096	CA	GLY			17.230	46.448	62.098	1.00 22.99
MOTA	2097	C			269	16.037	45.582	61.887	1.00 24.74
ATOM	2098	0			269	15.439	45.139	62.853	1.00 21.33
ATOM	2099	N			270	15.707	45.343	60.640	1.00 17.60
ATOM	2100	CA	MET			14.587	44.484	60.297	1.00 18.47
MOTA	2101	C	MET			14.949	43.752	59.018	1.00 20.42
ATOM	2102	0	MET			15.180	44.400	58.002	1.00 20.98
ATOM	2103	CB	MET			13.245	45.239	60.175	1.00 20.50
ATOM	2104	CG	MET			12.115	44.327	59.735	1.00 22.45
ATOM	2105	SD	MET			11.714	43.058	60.971	1.00 25.36
ATOM	2106	CE	MET			11.200	41.680	59.881	1.00 19.04
ATOM	2107	N	GLU			15.044	42.420	59.093	1.00 18.93
ATOM	2108	CA	GLU			15.439	41.551	57.963	1.00 16.80
ATOM	2109	C	GLU			14.510	41.520	56.750	1.00 23.10
ATOM	2110	O CE	GLU			14.293	40.443	56.147	1.00 20.21
ATOM	2111	CB	GLU			15.734	40.109	58.465	1.00 16.80
ATOM	2112	CG	GLU			14.466	39.377	58.960	1.00 15.05
ATOM	2113	CD OF1	GLU			14.180	39.703	60.400	1.00 33.48
ATOM ATOM	2114		GLU			14.547	40.735	60.934	1.00 25.20
ATOM	2115	N N	GLU			13.551	38.745	61.029	1.00 21.14
ATON	2116	14	ASN	H	614	13.954	42.685	56.346	1.00 20.52

MOTA	2117	CA	ASN	A	272	13.048	42.655	55.193	1.00 17.75
ATOM	2118	C	ASN	A	272	13.790	42.114	54.010	1.00 17.01
ATOM	2119	0	asn	Α	272	14.851	42.638	53.703	1.00 19.21
MOTA	2120	CB	asn	Α	272	12.370	44.003	54.915	1.00 17.79
MOTA	2121	CG	asn	Α	272	11.661	44.572	56.136	1.00 24.23
MOTA	2122	OD1	asn	A	272	11.907	45.714	56.563	1.00 37.07
MOTA	2123	ND2	asn	Α	272	10.751	43.792	56.694	1.00 16.34
MOTA	2124	N	PRO	A	273	13.261	41.060	53.393	1.00 16.33
MOTA	2125	CA	PRO	Α	273	13.943	40.451	52.265	1.00 17.34
ATOM	2126	С	PRO	Α	273	14.267	41.446	51.173	1.00 24.95
ATOM	2127	0	PRO	A	273	13.431	42.244	50.757	1.00 26.24
ATOM	2128	CB	PRO	A	273	13.064	39.333	51.737	1.00 19.31
MOTA	2129	CG	PRO	Α	273	11.797	39.328	52.569	1.00 22.96
MOTA	2130	CD	PRO	Α	273	11.925	40.459	53.588	1.00 16.97
MOTA	2131	N	CYS	Α	274	15.516	41.386	50.721	1.00 24.19
ATOM	2132	CA	CYS	Α	274	16.054	42.254	49.675	1.00 25.84
MOTA	2133	C.	CYS	Α	274	16.278	43.666	50.140	1.00 27.71
MOTA	2134	0	CYS	Α	274	16.936	44.425	49.409	1.00 28.34
MOTA	2135	CB	CYS	A	274	15.180	42.385	48.407	1.00 28.74
ATOM	2136	SG	CYS	Α	274	14.523	40.833	47.746	1.00 33.56
ATOM	2137	N	LEU	Α	275	15.724	44.015	51.305	1.00 21.22
ATOM	2138	CA	LEU	Α	275	15.832	45.374	51.803	1.00 20.67
ATOM	2139	C	LEU	Α	275	15.945	45.425	53.310	1.00 23.51
ATOM	2140	0	LEU	Α	275	14.982	45.644	54.033	1.00 18.39
MOTA	2141	CB	LEU	Α	275	14.631	46.228	51.307	1.00 20.52
ATOM	2142	CG	LEU	Α	275	14.710	47.769	51.456	1.00 24.37
MOTA	2143	CD1	LEU	A	275	15.999	48.306	50.851	1.00 23.96
ATOM	2144	CD2	LEU	Α	275	13.543	48.414	50.707	1.00 29.41
ATOM	2145	N	THR	Α	276	17.155	45.224	53.790	1.00 26.98
MOTA	2146	CA	THR	Α	276	17.313	45.296	55.226	1.00 27.92
MOTA	2147	C	THR	A	276	17.166	46.737	55.742	1.00 24.32
ATOM	2148	0	THR	A	276	17.704	47.680	55.197	1.00 21.95
MOTA	2149	CB	THR	A	276	18.635	44.667	55.732	1.00 28.74
ATOM	2150	OG1	THR	A	276	18.526	43.261	55.810	1.00 29.92
MOTA	2151	CG2	THR	A	276	18.941	45.171	57.132	1.00 23.98
MOTA	2152	N	PHE	A	277	16.425	46.889	56.810	1.00 19.33
MOTA	2153	CA	PHE	A	277	16.265	48.202	57.427	1.00 19.10
MOTA	2154	С	PHE	Α	277	17.203	48.239	58.632	1.00 26.76
MOTA	2155	0	PHE	A	277	17.305	47.246	59.382	1.00 26.98
MOTA	2156	CB	PHE	A	277	14.839	48.407	58.017	1.00 19.49
ATOM	2157	CG	PHE	A	277	13.757	48.622	57.003	1.00 20.03
ATOM	2158	CD1	PHE	A	277	13.966	48.271	55.668	1.00 24.06
MOTA	2159		PHE			12.516	49.134	57.377	1.00 22.03
MOTA	2160	CE1	PHE	A	277	12.973	48.469	54.705	1.00 24.67
MOTA	2161	CE2	PHE	Α	277	11.505	49.328	56.430	1.00 24.89
MOTA	2162	CZ	PHE	Α	277	11.743	48.995	55.094	1.00 22.53
ATOM	2163	N	VAL	A	278	17.8 <i>6</i> 3	49.370	58.858	1.00 21.23
MOTA	2164	CA	VAL	A	278	18.723	49.495	60.017	1.00 19.76
ATOM	2165	C	VAL	A	278	18.559	50.854	60.637	1.00 25.21
MOTA	2166	0	VAL			18.247	51.859	59.974	1.00 21.23
MOTA	2167	CB	VAL			20.211	49.239	59.774	1.00 25.14
MOTA	2168		VAL			20.418	47.900	59.090	1.00 25.71
MOTA	2169	CG2	VAL	A	278	20.802	50.363	58.929	1.00 24.26
MOTA	2170	N	THR	A	279	18.801	50.869	61.927	1.00 20.05
ATOM	2171	CA	THR	A	279	18.704	52.104	62.667	1.00 19.13
ATOM	2172	C	THR	A	279	19.897	52.980	62.347	1.00 23.23
MOTA	2173	0	THR	A	279	20.995	52.487	62.151	1.00 22.78
ATOM	2174	CB	THR	A	279	18.714	51.813	64.186	1.00 16.11

MOTA	2175		THR			18.714	53.050	64.868	1.00 19.82
MOTA	2176	CG2	THR			19.964	51.004	64.542	1.00 16.49
MOTA	2177	N	PRO	Α	280	19.702	54.306	62.335	1.00 24.27
MOTA	2178	CA			280	20.833	55.201	62.087	1.00 22.03
ATOM	2179	C	PRO	A	280	21.748	55.222	63.312	1.00 23.36
ATOM	2180	0	PRO	Α	280	22.871	55.758	63.265	1.00 22.67
MOTA	2181	CB	PRO	A	280	20.272	56.603	61.813	1.00 22.22
MOTA	2182	CG	PRO	Α	280	18.766	56.520	62.043	1.00 27.67
MOTA	2183	CD	PRO	A	280	18.397	55.053	62.250	1.00 23.53
MOTA	2184	N	THR	A	281	21.266	54.616	64.405	1.00 17.56
ATOM	2185	CA	THR	Α	281	22.082	54.545	65.602	1.00 17.27
ATOM	2186	C	THR	Α	281	23.287	53.665	65.362	1.00 21.93
ATOM	2187	0	THR	A	281	24.183	53.597	66.199	1.00 20.04
ATOM	2188	CB	THR	A	281	21.373	54.112	66.902	1.00 17.56
ATOM	2189	OG1	THR	A	281	20.857	52.799	66.785	1.00 21.89
ATOM	2190	CG2	THR	Α	281	20.283	55.142	67.261	1.00 21.96
ATOM	2191	N	LEU			23.312	52.977	64.232	1.00 17.97
MOTA	2192	CA	LEU			24.487	52.135	63.947	1.00 17.90
ATOM	2193	C	LEU			25.696	52.965	63.437	1.00 22.56
ATOM	2194	0	LEU			26.821	52.478	63.352	1.00 22.13
ATOM	2195	СВ			282	24.206	51.077	62.864	1.00 15.83
ATOM	2196	CG			282	23.051	50.117	63.132	1.00 21.56
MOTA	2197		LEU			23.068	49.007	62.079	1.00 20.06
ATOM	2198		LEU			23.201	49.502	64.507	1.00 17.47
ATOM	2199	N	LEU			25.452	54.219	63.053	1.00 20.88
ATOM	2200	CA			283	26.501	55.049	62.479	1.00 21.60
ATOM	2201	c			283	27.522	55.554	63.463	1.00 29.62
MOTA	2202	ō			283	27.624	56.755	63.633	1.00 31.93
ATOM	2203	CB			283	25.895	56.225	61.682	1.00 21.41
ATOM	2204	CG			283	24.839	55.780	60.662	1.00 24.34
ATOM	2205		LEU			24.230	57.001	59.956	1.00 23.79
ATOM	2206		LEU			25.480	54.835	59.639	1.00 26.70
ATOM	2207	N			284	28.271	54.652	64.118	1.00 26.89
ATOM	2208	CA			284	29.257	55.077	65.103	1.00 24.30
ATOM	2209	C			284	30.467	55.770	64.477	1.00 29.39
MOTA	2210	0			284	31.203	56.476	65.155	1.00 31.04
ATOM	2211	CB			284	29.694	53.941	66.015	1.00 24.10
ATOM	2212	N			285	30.694	55.561	63.180	1.00 22.20
ATOM	2213	CA			285	31.822	56.190	62.534	1.00 21.17
ATOM	2214	C			285	33.061	55.295	62.386	1.00 31.73
MOTA	2215	ō			285	34.013	55.659	61.696	1.00 32.59
ATOM	2216	N			286	33.063	54.105	63.020	1.00 28.41
ATOM	2217	CA	ASP			34.184	53.180	62.939	1.00 21.98
ATOM	2218	c			286	33.757	51.763	62.583	1.00 25.41
ATOM	2219	0			286	34.532	50.834	62.765	1.00 24.81
ATOM	2220	CB			286	34.906	53.146	64.268	1.00 22.94
ATOM	2221	CG			286	33.959	52.719	65.334	1.00 33.17
ATOM	2222		ASP				52.362	65.097	1.00 32.35
ATOM	2223		ASP			34.492	52.744	66.523	1.00 37.83
ATOM	2224	N			287	32.512	51.605	62.122	1.00 23.26
ATOM	2225	CA			287	31.988	50.297	61.719	1.00 23.59
	2226	C			287	31.865	49.336	62.888	1.00 24.51
ATOM ATOM	2227	0			287	31.681	48.136	62.711	1.00 23.45
MOTA	2228	CB			287	32.918	49.636	60.694	1.00 24.58
	2229	CG			287	33.510	50.531	59.618	1.00 29.73
ATOM ATOM	2230	CD			287	34.297	49.706	58.598	1.00 23.73
ATOM	2230	CE			287		50.517	57.572	1.00 34.17
	2231	NZ			287	34.164	51.281	56.664	1.00 35.09
MOTA	4636	TA 57	פזה	н	201	34.704	JT.50T	20.004	1.00 30.73

ATOM	2233	N	SER	Α	288	31.972	49.866	64.091	1.00 23.33
ATOM	2234	CA	SER	Α	288	31.941	49.045	65.285	1.00 20.21
ATOM	2235	С			288	30.649	48.286	65.585	1.00 26.52
MOTA	2236	ō			288	30.671	47.247	66.272	1.00 24.43
ATOM	2237	СВ			288	32.482	49.805	66.483	1.00 18.45
	2238	OG			288	31.558	50.812	66.797	1.00 27.86
MOTA									1.00 27.88
MOTA	2239	N			289	29.519	48.791	65.088	
ATOM	2240	CA			289	28.247	48.129	65.338	1.00 21.77
MOTA	2241	C			289	27.781	47.281	64.165	1.00 24.87
MOTA	2242	0			289	26.595	46.999	63.993	1.00 23.49
ATOM	2243	CB	LEU	Α	289	27.169	49.134	65.733	1.00 21.62
MOTA	2244	CG	LEU	Α	289	27.655	50.085	66.804	1.00 24.32
ATOM	2245	CD1	LEU	Α	289	26.587	51.127	67.041	1.00 22.74
ATOM	2246	CD2	LEU	Α	289	27.900	49.299	68.090	1.00 23.03
MOTA	2247	N	SER	A	290	28.735	46.867	63.358	1.00 22.75
MOTA	2248	CA	SER	A	290	28.418	46.074	62.203	1.00 22.55
ATOM	2249	Ċ			290	27.840	44.715	62.577	1.00 26.48
ATOM	2250	0			290	27.240	44.047	61.729	1.00 25.78
ATOM	2251	CB			290	29.619	45.960	61.293	1.00 23.90
MOTA	2252	OG			290	30.468	44.969	61.839	1.00 38.79
MOTA	2253	И			291	27.990	44.285	63.845	1.00 19.29
ATOM	2254	CA			291	27.407	42.997	64.158	1.00 19.36
					291		43.006	63.785	1.00 25.06
ATOM	2255	C				25.942			
ATOM	2256	0			291	25.372	41.981	63.398	1.00 23.17
MOTA	2257	CB			291	27.578	42.553	65.608	1.00 16.45
ATOM	2258	CG			291	26.714	43.390	66.488	1.00 21.86
MOTA	2259		ASN			26.958	44.565	66.626	1.00 24.59
MOTA	2260		ASN			25.646	42.794	67.012	1.00 27.34
MOTA	2261	N	VAL			25.323	44.184	63.885	1.00 21.23
ATOM	2262	CA	VAL			23.903	44.282	63.564	1.00 17.12
MOTA	2263	C			292	23.651	43.926	62.113	1.00 22.88
ATOM	2264	0	VAL	A	292	22.639	43.320	61.751	1.00 24.23
MOTA	2265	CB	VAL	Α	292	23.306	45.616	63.957	1.00 19.41
ATOM	2266	CG1	VAL	A	292	21.861	45.660	63.492	1.00 19.16
MOTA	2267	CG2	VAL	A	292	23.353	45.733	65.468	1.00 17.97
MOTA	2268	N	ILE	A	293	24.599	44.292	61.269	1.00 20.25
MOTA	2269	CA	ILE	A	293	24.465	43.971	59.867	1.00 20.49
ATOM	2270	C	ILE	A	293	24.578	42.426	59.655	1.00 24.54
MOTA	2271	0	ILE	Α	293	23.801	41.780	58.903	1.00 22.05
MOTA	2272	CB	ILE	A	293	25.488	44.762	59.038	1.00 24.97
MOTA	2273	CG1	ILE	Α	293	25.299	46.274	59.158	1.00 22.05
ATOM	2274	CG2	ILE	A	293	25.301	44.415	57.576	1.00 29.49
ATOM	2275	CD1	ILE	A	293	23.950	46.712	58.604	1.00 21.49
MOTA	2276	N	ALA	A	294	25.542	41.819	60.345	1.00 17.90
ATOM	2277		ALA			25.743	40.386	60.233	1.00 17.67
MOTA	2278	C			294	24.454	39.674	60.630	1.00 24.28
ATOM	2279	ō	ALA			24.014	38.666	60.041	1.00 21.85
ATOM	2280	CB			294	26.896	39.956	61.139	1.00 16.43
MOTA	2281	N	HIS			23.846	40.249	61.661	1.00 18.62
ATOM	2282	CA	HIS			22.607	39.726	62.198	1.00 16.60
						21.525			1.00 18.00
MOTA	2283	C	HIS				39.710	61.129	
MOTA	2284	O CT	HIS			20.950	38.669	60.856	1.00 18.16
ATOM	2285	CB	HIS			22.129	40.512	63.441	1.00 15.55
ATOM	2286	CG	HIS			20.885	39.923	64.057	1.00 16.65
ATOM	2287		HIS			20.954	38.987	65.079	1.00 17.50
ATOM	2288		HIS			19.577	40.156	63.765	1.00 17.33
MOTA	2289		HIS			19.700	38.672	65.367	1.00 17.73
ATOM	2290	NE2	HIS	A	295	18.860	39.363	64.599	1.00 17.82

MOTA	2291	N	GLU A	1 2	96	21.252	40.868	60.547	1.00	14.96
MOTA	2292	CA	GLU A	1 2	96	20.222	40.959	59.515	1.00	17.03
MOTA	2293	С	GLU 1	2	96	20.529	40.090	58.323	1.00	20.56
MOTA	2294	0	GLU 1	2	96	19.624	39.500	57.744	1.00	22.06
ATOM	2295	CB	GLU A	2	96	19.900	42.402	59.052	1.00	18.78
MOTA	2296	CG	GLU A	1 2	96	19.607	43.415	60.181	1.00	17.76
MOTA	2297	CD	GLU A	2	96	18.765	42.905	61.324	1.00	26.07
MOTA	2298	OE1	GLU A	2	96	18.010	41.975	61.243	1.00	24.13
MOTA	2299	OE2	GLU A	2	96	18.874	43.640	62.413	1.00	42.10
MOTA	2300	N	ILE A	1 2	97	21.799	40.001	57.957		16.85
ATOM	2301	CA	ILE A	1 2	97	22.176	39.161	56.846	1.00	15.16
MOTA	2302	С	ILE A	2	97	21.825	37.709	57.169	1.00	22.46
ATOM	2303	0	ILE A	2	97	21.310	36.919	56.339		18.88
ATOM	2304	CB	ILE A			23.676	39.273	56.680	1.00	17.58
ATOM	2305	CG1	ILE A			24.051	40.492	55.842		17.94
ATOM	2306	CG2	ILE A			24.194	38.001	56.047		16.21
ATOM	2307	CD1	ILE A			25.558	40.688	55.777		16.70
ATOM	2308	N	SER A			22.126	37.334	58.419		16.91
ATOM	2309	CA	SER A			21.857	35.952	58.836		16.01
MOTA	2310	C	SER A			20.402	35.530	58.690		18.70
MOTA	2311	ō	SER A			20.129	34.360	58.355		18.32
ATOM	2312	СВ	SER A			22.365	35.647	60.222		18.04
ATOM	2313	OG	SER A			23.759	35.843	60.212		25.50
ATOM	2314	N	HIS A			19.496	36.484	58.951		16.60
ATOM	2315	CA	HIS A			18.064	36.277	58.849		16.43
MOTA	2316	C	HIS A			17.660	35.796	57.454		20.34
ATOM	2317	0	HIS A			16.580	35.206	57.285		19.75
ATOM	2318	CB	HIS A			17.252	37.538	59.241		15.73
ATOM	2319	CG	HIS A			16.941	37.599	60.709		18.61
ATOM	2320		HIS A			16.410	36.500	61.393		18.57
ATOM	2321		HIS A			17.108	38.612	61.617		19.47
ATOM	2322		HIS A			16.265	36.863	62.660		16.96
ATOM	2323	NE2	HIS A			16.665	38.109	62.818		18.81
ATOM	2324	N	SER A			18.516	36.060	56.460		16.40
ATOM	2325	CA	SER A			18.231	35.641	55.084		19.81
ATOM	2326	С	SER A			18.105	34.120	54.951		25.93
ATOM	2327	0	SER A			17.626	33.597	53.936		23.71
ATOM	2328	СВ	SER A			19.240	36.184	54.064		27.33
ATOM	2329	OG	SER A			19.323	37.591	54.135		26.20
MOTA	2330	N	TRP A	3 (	01	18.564	33.415	55.994		23.64
MOTA	2331	CA	TRP A			18.480	31.980	56.072	1.00	23.37
ATOM	2332	C	TRP A	3 (	01	17.579	31.598	57.249	i.00	27.41
ATOM	2333	0	TRP A			16.503	31.014	57.072	1.00	26.23
MOTA	2334	СВ	TRP A			19.866	31.334	56.222	1.00	22.22
ATOM	2335	CG	TRP A	3 (	01	20.722	31.499	55.000		25.34
ATOM	2336	CD1	TRP A			20.897	30.577	53.999		28.73
ATOM	2337	CD2	TRP A	3 (	01	21.534	32.613	54.641		23.93
ATOM	2338	NE1	TRP A			21.743	31.051	53.032		25.58
ATOM	2339	CE2	TRP A	3 (	01	22.156	32.295	53.396		24.57
ATOM	2340	CE3	TRP F			21.778	33.847	55.244	1.00	24.02
ATOM	2341	CZ2				23.010	33.177	52.743		23.11
ATOM	2342	CZ3	TRP A			22.609	34.727	54.586	1.00	25.68
ATOM	2343	CH2	TRP A			23.232	34.385	53.368		26.71
ATOM	2344	N	THR A			18.030	31.964	58.469		23.13
ATOM	2345	CA	THR A			17.299	31.646	59.698		20.44
ATOM	2346	С	THR A			16.314	32.722	60.004		23.69
ATOM	2347	0	THR A			16.673	33.739	60.555		23.66
ATOM	2348	CB	THR A			18.238	31.327	60.891		27.33

T COM	2349	OG1	מנוחה	70	302	19.190	32.355	61.052	1.00 21.35
ATOM					302				
MOTA	2350	CG2			302	18.973	30.007	60.646	1.00 22.24
MOTA	2351	N			303	15.070	32.492	59.620	1.00 19.58
MOTA	2352	CA	GLY	Α	303	14.004	33.460	59.800	1.00 16.06
MOTA	2353	С	GLY	Α	303	13.286	33.658	58.468	1.00 19.82
MOTA	2354	0	GLY	Α	303	12.092	33.388	58.365	1.00 19.83
MOTA	2355	N	ASN	А	304	14.017	34.119	57.444	1.00 16.86
MOTA	2356	CA			304	13.399	34.321	56.143	1.00 16.61
ATOM	2357	C			304	13.238	33.035	55.347	1.00 23.54
ATOM	2358	ō			304	12.223	32.894	54.652	1.00 21.34
ATOM	2359	СВ			304	14.043	35.434	55.308	1.00 14.57
	2360	CG			304	14.108	36.721	56.098	1.00 25.16
ATOM									1.00 20.16
ATOM	2361		ASN			13.623	36.756	57.255	
ATOM	2362	ND2	ASN			14.648	37.782	55.467	1.00 21.15
MOTA	2363	N			305	14.216	32.090	55.431	1.00 19.86
ATOM	2364	CA			305	14.049	30.819	54.669	1.00 20.27
MOTA	2365	С	LEU	Α	305	13.273	29.810	55.496	1.00 24.31
MOTA	2366	0			305	12.282	29.233	55.044	1.00 21.45
MOTA	2367	CB	LEU	Α	305	15.352	30.177	54.176	1.00 21.11
MOTA	2368	CG	LEU	Α	305	15.786	30.655	52.809	1.00 25.81
ATOM	2369	CD1	LEU	Α	305	17.105	29.986	52.465	1.00 23.53
ATOM	2370	CD2	LEU	Α	305	14.713	30.354	51.766	1.00 25.44
ATOM	2371	N	VAL	A	306	13.766	29.600	56.715	1.00 19.66
ATOM	2372	CA			306	13.116	28.715	57.667	1.00 19.73
ATOM	2373	C			306	12.540	29.643	58.716	1.00 23.65
ATOM	2374	0			306	13.250	30.390	59.389	1.00 21.08
		CB			306	13.250		58.203	1.00 24.56
ATOM	2375						27.552		
ATOM	2376		VAL			15.439	27.775	58.065	1.00 25.21
MOTA	2377		VAL			13.546	27.071	59.593	1.00 23.12
ATOM	2378	N			307	11.227	29.653	58.786	1.00 22.38
MOTA	2379	CA			307	10.491	30.569	59.652	1.00 18.69
ATOM	2380	С			307	9.776	29.908	60.803	1.00 19.89
MOTA	2381	0			307	9.265	28.797	60.676	1.00 18.85
ATOM	2382	CB	THR	Α	307	9.440	31.242	58.731	1.00 16.78
ATOM	2383	OG1	THR	A	307	10.099	31.705	57.575	1.00 21.78
ATOM	2384	CG2	THR	A	307	8.767	32.425	59.408	1.00 14.70
MOTA	2385	N	ASN	Α	308	9.719	30.607	61.934	1.00 15.56
MOTA	2386	CA	ASN	A	308	9.007	30.068	63.069	1.00 14.26
MOTA	2387	C	ASN	A	308	7.534	29.908	62.638	1.00 17.86
ATOM	2388	0	ASN	A	308	6.972	30.743	61.911	1.00 19.31
ATOM	2389	СВ	ASN	Α	308	9.214	30.967	64.327	1.00 14.46
MOTA	2390	CG	ASN	Α	308	9.026	32.476	64.197	1.00 23.32
ATOM	2391	OD1	ASN			9.548	33.245	65.006	1.00 23.73
ATOM	2392		ASN			8.230	32.940	63.230	1.00 20.68
ATOM	2393	N			309	6.901	28.821	62.988	1.00 16.51
ATOM	2394	CA	LYS			5.521	28.605	62.547	1.00 15.57
ATOM	2395	C			309	4.512	29.487	63.292	1.00 23.15
			LYS						
ATOM	2396	0				3.448	29.840	62.779	1.00 19.88
ATOM	2397	CB			309	5.157	27.141	62.555	1.00 18.63
ATOM	2398	CG			309	3.783	26.941	61.978	1.00 24.36
ATOM	2399	CD	LYS			3.276	25.543	62.196	1.00 44.21
MOTA	2400	CE			309	3.331	24.691	60.940	1.00 65.63
MOTA	2401	NZ	LYS	A	309	4.302	23.583	61.017	1.00 72.19
MOTA	2402	N	THR	A	310	4.859	29.849	64.521	1.00 18.08
MOTA	2403	CA	THR	A	310	4.057	30.752	65.326	1.00 14.95
ATOM	2404	C	THR	A	310	5.051	31.508	66.162	1.00 19.22
MOTA	2405	0	THR			6.183	31.035	66.364	1.00 19.33
					310	2.999	30.101	66.243	1.00 18.83
ATOM	2406	CB	TUK	H	210	4.333	30.101	00.243	1.00 70.03

ATOM	2407	OG1	THR .	א	310	3.625	29.509	67.381	1.00 20.97
ATOM		CG2				2.148	29.053	65.492	1.00 22.03
	2408		THR .						
MOTA	2409	N	TRP .			4.640	32.649	66.669	1.00 16.83
MOTA	2410	CA	TRP			5.531	33.473	67.477	1.00 13.87
ATOM	2411	C	TRP .	A	311	5.957	32.812	68.766	1.00 14.72
MOTA	2412	0	TRP .	A	311	6.891	33.247	69.422	1.00 15.63
MOTA	2413	CB	TRP .	Α	311	4.904	34.837	67.698	1.00 12.94
MOTA	2414	CG	TRP .	Α	311	4.716	35.521	66.410	1.00 14.94
MOTA	2415	CD1	TRP	Α	311	3.536	35.917	65.896	1.00 17.72
MOTA	2416	CD2	TRP .			5.744	35.880	65.459	1.00 17.04
ATOM	2417		TRP			3.739	36.531	64.685	1.00 19.20
ATOM	2418	CE2	TRP .			5.092	36.531	64.384	1.00 21.28
		CE3	TRP					65.408	
ATOM	2419					7.135	35.723		1.00 18.68
ATOM	2420	CZ2	TRP .			5.792	37.000	63.260	1.00 18.99
MOTA	2421	CZ3	TRP .			7.813	36.210	64.309	1.00 19.24
MOTA	2422	CH2	TRP .			7.151	36.841	63.247	1.00 18.58
MOTA	2423	N	ASP .	A	312	5.285	31.739	69.136	1.00 14.32
ATOM	2424	CA	ASP .	A	312	5.677	31.022	70.355	1.00 16.52
MOTA	2425	С	ASP .	Α	312	7.057	30.348	70.182	1.00 20.97
ATOM	2426	0	ASP .	Α	312	7.728	30.022	71.141	1.00 16.88
ATOM	2427	CB	ASP .			4.644	29.947	70.744	1.00 18.67
ATOM	2428	CG	ASP			3.331	30.475	71.277	1.00 24.42
ATOM	2429		ASP			3.179	31.578	71.761	1.00 26.54
								71.701	
ATOM	2430		ASP .			2.390	29.579		1.00 32.52
MOTA	2431	N	HIS .			7.447	30.132	68.919	1.00 16.31
ATOM	2432	CA	HIS .			8.688	29.503	68.532	1.00 13.00
MOTA	2433	C	HIS .			9.717	30.498	68.007	1.00 17.41
MOTA	2434	0	HIS .	A	313	10.670	30.160	67.348	1.00 19.76
MOTA	2435	CB	HIS.	A	313	8.337	28.435	67.454	1.00 14.66
MOTA	2436	CG	HIS .	A	313	7.461	27.395	68.061	1.00 17.94
MOTA	2437	ND1	HIS .	A	313	7.980	26.389	68.863	1.00 19.58
ATOM	2438	CD2	HIS.	A	313	6.110	27.278	68.054	1.00 18.14
ATOM	2439	CE1	HIS .	Α	313	6.946	25.663	69.305	1.00 18.62
ATOM	2440	NE2	HIS .	Α	313	5.811	26.178	68.828	1.00 18.86
ATOM	2441	N	PHE			9.532	31.752	68.337	1.00 17.04
ATOM	2442	CA	PHE			10.391	32.850	67.928	1.00 14.60
ATOM	2443	C	PHE			11.861	32.591	68.188	1.00 14.03
ATOM	2444	0	PHE			12.756	33.089	67.509	1.00 15.80
			PHE				34.129	68.656	1.00 15.67
ATOM	2445	CB				9.943			
ATOM	2446	CG	PHE			10.618	35.416	68.185	
ATOM	2447		PHE			10.734	35.717	66.826	1.00 17.79
ATOM	2448		PHE				36.344		1.00 17.04
MOTA	2449		PHE			11.336	36.910	66.418	1.00 17.88
MOTA	2450	CE2	PHE .			11.721	37.538	68.720	1.00 17.77
MOTA	2451	CZ	PHE .	A	314	11.824	37.822	67.358	1.00 15.05
MOTA	2452	N	TRP	Α	315	12.145	31.812	69.177	1.00 14.30
ATOM	2453	CA	TRP	A	315	13.551	31.581	69.445	1.00 13.26
MOTA	2454	С	TRP	A	315	14.219	30.940	68.255	1.00 17.26
MOTA	2455	0	TRP			15.391	31.153	68.003	1.00 16.79
ATOM	2456	СВ	TRP			13.805	30.797	70.763	1.00 13.36
ATOM	2457	CG	TRP			13.608	29.330	70.603	1.00 15.85
ATOM	2458		TRP			12.425	28.660	70.644	1.00 19.09
			TRP			14.612	28.351	70.278	1.00 16.53
MOTA	2459								
ATOM	2460		TRP			12.631	27.325	70.422	1.00 18.83
MOTA	2461		TRP			13.968	27.108	70.161	1.00 20.33
MOTA	2462		TRP			15.981	28.411	70.051	1.00 16.71
MOTA	2463		TRP			14.671	25.924	69.865	1.00 18.62
MOTA	2464	CZ3	TRP	A	315	16.664	27.238	69.777	1.00 17.58

N TOOM	2466	atto	mn n	_	215	16 007	25 004	CD COA	1 00	16 00
ATOM	2465	CH2	TRP			16.027	26.004	69.680	1.00	
MOTA	2466	N	LEU			13.490	30.115	67.508	1.00	
MOTA	2467	CA	LEU			14.126	29.478	66.367		16.28
MOTA	2468	С	LEU	Α	316	14.705	30.543	65.434	1.00	19.17
MOTA	2469	0	LEU	Α	316	15.820	30.419	64.920	1.00	20.97
MOTA	2470	CB	LEU	A	316	13.125	28.610	65.569	1.00	15.83
MOTA	2471	CG	LEU	A	316	12.628	27.362	66.276	1.00	18.57
ATOM	2472	CD1	LEU	A	316	11.532	26.714	65.422	1.00	16.74
MOTA	2473	CD2	LEU	A	316	13.784	26.387	66.501	1.00	15.84
MOTA	2474	N	ASN	A	317	13.910	31.597	65.215	1.00	15.84
ATOM	2475	CA	ASN	Α	317	14.312	32.673	64.360	1.00	15.91
ATOM	2476	C	ASN			15.543	33.378	64.907		22.96
ATOM	2477	0	ASN			16.551	33.551	64.224	1.00	
ATOM	2478	CB	ASN			13.208	33.748	64.217		19.46
ATOM	2479	CG	ASN			12.179	33.441	63.147	1.00	
ATOM	2480		ASN			11.822	32.273	62.889	1.00	
ATOM	2481		ASN			11.664	34.504	62.541		14.06
ATOM	2482	N	GLU			15.430	33.801	66.155	1.00	
ATOM	2483	CA	GLU			16.489	34.567	66.808	1.00	
MOTA	2484	C	GLU			17.736	33.817	67.229	1.00	
ATOM	2485	0	GLU			18.843	34.264	66.959	1.00	
MOTA	2486	CB	GLŲ		•	15.966	35.546	67.890	1.00	
MOTA	2487	CG	GLU			14.904	36.470	67.308		16.88
MOTA	2488	CD	GLU	A	318	15.432	37.337	66.197	1.00	20.90
MOTA	2489	OE1	GLU	A	318	16.619	37.552	66.002	1.00	17.90
MOTA	2490	0E2	GLU	A	318	14.481	37.883	65.486	1.00	20.95
MOTA	2491	N	GLY	Α	319	17.556	32.693	67.913	1.00	15.48
ATOM	2492	CA	GLY	A	319	18.708	31.954	68.353	1.00	13.87
MOTA	2493	C	GLY	Α	319	19.645	31.601	67.227	1.00	15.36
MOTA	2494	0	GLY	A	319	20.826	31.897	67.274	1.00	18.04
MOTA	2495	N	HIS	Α	320	19.124	30.919	66.223	1.00	16.60
ATOM	2496	CA	HIS	A	320	19.938	30.512	65.119	1.00	19.46
ATOM	2497	C	HIS	A	320	20.609	31.698	64.432	1.00	19.78
ATOM	2498	0	HIS	A	320	21.721	31.601	63.957	1.00	18.89
ATOM	2499	CB	HIS			19.103	29.719	64.090	1.00	21.04
ATOM	2500	CG	HIS			18.719	28.404	64.640		23.23
ATOM	2501	ND1	HIS			17.638	28.280	65.470	1.00	23.89
ATOM	2502		HIS			19.295	27.187	64.491		27.03
ATOM	2503		HIS			17.573	26.996	65.803		25.85
ATOM	2504		HIS			18.546	26.309	65.223		26.09
ATOM	2505	N	THR			19.880	32.798	64.361		17.39
ATOM	2506	CA	THR			20.399	34.005	63.744		17.58
ATOM	2507	C	THR			21.565	34.584	64.573	1.00	
ATOM	2508	ō	THR			22.605	34.963	64.022	1.00	
ATOM	2509	СВ	THR			19.301	35.065	63.457	1.00	
ATOM	2510	OG1				18.319	34.491	62.600		17.40
ATOM	2511		THR			19.936	36.287	62.748		20.37
	2512		VAL				34.634	65.910		14.96
ATOM		N CZ				21.413				
MOTA	2513	CA	VAL			22.519	35.159	66.699		14.94
MOTA	2514	C	VAL			23.695	34.220	66.563		17.53
ATOM	2515	0	VAL			24.843	34.611	66.518		17.42
ATOM	2516	CB	VAL			22.126	35.294	68.160		17.37
ATOM	2517		VAL			23.359	35.613	68.986		13.17
MOTA	2518		VAL			21.098	36.428	68.277		17.93
MOTA	2519	N	TYR			23.383	32.948	66.490		16.41
MOTA	2520	CA	TYR			24.419	31.949	66.340		14.67
MOTA	2521	С	TYR			25.190	32.191	65.026		20.23
ATOM	2522	0	TYR	A	323	26.409	32.217	64.981	1.00	18.57

ATOM	2523	CB	TYR A		23.837	30.513	66.424	1.00 15.23
ATOM	2524	CG	TYR A		24.896	29.441	66.345	1.00 16.06
ATOM	2525	CD1	TYR A	323	25.625	29.053	67.470	1.00 17.96
MOTA	2526	CD2	TYR A	323	25.192	28.824	65.127	1.00 20.62
ATOM	2527	CE1	TYR A	323	26.605	28.053	67.412	1.00 15.34
ATOM	2528	CE2	TYR A	323	26.178	27.832	65.041	1.00 21.18
MOTA	2529	CZ	TYR A		26.895	27.464	66.179	1.00 19.73
ATOM	2530	OH	TYR A		27.885	26.526	66.061	1.00 21.45
ATOM	2531	N	LEU A		24.487	32.379	63.931	1.00 17.19
MOTA	2532	CA	LEU A		25.195	32.589	62.676	1.00 18.47
ATOM	2533	С	LEU A		25.999	33.872	62.689	1.00 21.76
MOTA	2534	0	LEU A	324	27.157	33.935	62.279	1.00 22.47
MOTA	2535	CB	LEU A	324	24.193	32.667	61.520	1.00 20.23
ATOM	2536	CG	LEU A	324	23.731	31.312	61.056	1.00 28.87
ATOM	2537	CD1	LEU A	324	22.759	31.483	59.871	1.00 30.72
MOTA	2538	CD2	LEU A	324	24.967	30.478	60.695	1.00 33.05
ATOM	2539	N	GLU A	325	25.325	34.904	63.159	1.00 19.91
MOTA	2540	CA	GLU A		25.862	36.253	63.276	1.00 17.98
ATOM	2541	C	GLU A		27.202	36.228	63.919	1.00 20.70
ATOM	2542	0	GLU A		28.138	36.847	63.449	1.00 19.47
ATOM	2543	CB	GLU A		24.936	37.093	64.193	1.00 19.51
ATOM	2544	CG	GLU A		25.593	38.353	64.806	1.00 26.53
MOTA	2545	CD	GLU A		24.735	38.992	65.891	1.00 56.58
MOTA	2546	OE1			23.578	38.680	66.153	1.00 24.74
MOTA	2547	OE2	GLU A	325	25.351	39.940	66.533	1.00 33.68
ATOM	2548	N	ARG A		27.251	35.502	65.025	1.00 17.27
MOTA	2549	CA	ARG A	326	28.462	35.384	65.802	1.00 17.75
ATOM	2550	C	ARG A	326	29.571	34.629	65.073	1.00 22.32
MOTA	2551	0	ARG A	326	30.759	34.898	65.254	1.00 18.58
MOTA	2552	CB	ARG A	. 326	28.152	34.891	67.208	1.00 18.45
ATOM	2553	CG	ARG A	326	27.526	36.021	67.998	1.00 11.87
ATOM	2554	CD	ARG A		27.436	35.786	69.497	1.00 18.68
ATOM	2555	NE	ARG A		26.686	36.906	70.068	1.00 16.96
ATOM	2556	CZ	ARG A		25.802	36.826	71.031	1.00 18.50
ATOM	2557	NH1			25.522	35.695	71.654	1.00 15.65
ATOM	2558	NH2	ARG A		25.195	37.944	71.411	1.00 23.44
ATOM	2559	N	HIS A		29.177	33.680	64.226	1.00 23.44
ATOM	2560	CA	HIS A					1.00 20.50
					30.146	32.930	63.416	
ATOM	2561	C	HIS A		30.717	33.852	62.329	1.00 23.94
MOTA	2562	0	HIS A		31.910	33.810	62.042	1.00 21.92
ATOM	2563	CB	HIS A		29.514	31.692	62.771	1.00 19.66
MOTA	2564	CG	HIS A		29.746	30.486	63.608	1.00 23.28
ATOM	2565		HIS A		31.026	30.094	63.976	1.00 25.05
ATOM	2566	CD2	HIS A	. 327	28.854	29.603	64.142	1.00 24.87
MOTA	2567	CE1	HIS A	. 327	30.891	28.990	64.707	1.00 25.38
ATOM	2568	NE2	HIS A	. 327	29.599	28.662	64.827	1.00 25.90
ATOM	2569	N	ILE A	328	29.841	34.698	61.739	1.00 17.81
MOTA	2570	CA	ILE A	328	30.286	35.640	60.721	1.00 17.61
MOTA	2571	C	ILE A	328	31.360	36.536	61.324	1.00 26.22
ATOM	2572	0	ILE A		32.473	36.706	60.805	1.00 27.90
MOTA	2573	CB	ILE A		29.158	36.521	60.172	1.00 19.15
ATOM	2574		ILE A		28.134	35.720	59.335	1.00 20.77
MOTA	2575		ILE A		29.734	37.649	59.333	1.00 20.77
		CD1						
ATOM	2576				26.898	36.522	58.865	1.00 15.83
ATOM	2577	N	CYS A		31.005	37.125	62.446	1.00 22.11
ATOM	2578	CA	CYS A		31.914	37.983	63.115	1.00 25.86
MOTA	2579	C	CYS A		33.169	37.244	63.548	1.00 25.73
ATOM	2580	0	CYS A	329	34.260	37.798	63.5 <i>9</i> 3	1.00 22.37

MOTA	2581	CB	CYS	A	329	31.209	38.714	64.264	1.00	32.85
MOTA	2582	SG	CYS	Α	329	30.072	40.005	63.644	1.00	40.78
MOTA	2583	N	GLY	A	330	33.018	35.970	63.905	1.00	25.01
MOTA	2584	CA	GLY	Α	330	34.160	35.189	64.308	1.00	24.77
MOTA	2585	C	GLY	Α	330	35.075	34.986	63.108	1.00	29.37
MOTA	2586	0			330	36.297	34.999	63.254		26.53
ATOM	2587	Ŋ			331	34.467	34.846	61.906		27.34
ATOM	2588	CA			331	35.260	34.674	60.685		27.23
ATOM	2589	С			331	36.073	35.939	60.376		29.63
MOTA	2590	0			331	37.235	35.895	59.990		30.48
ATOM	2591	CB			331	34.438	34.328	59.436		22.91
MOTA	2592	CG			331	34.006	32.889	59.354	1.00	35.75
MOTA	2593	CD	ARG	A	331	34.619	32.119	58.189	1.00	40.73
MOTA	2594	NE	ARG	Α	331	34.077	30.775	58.128	1.00	51.17
MOTA	2595	CZ	ARG	Α	331	33.916	29.992	59.215	1.00	76.62
MOTA	2596	NHl	ARG	Α	331	34.238	30.376	60.455	1.00	62.32
ATOM	2597	NH2	ARG	A	331	33.419	28.763	59.067	1.00	59.87
MOTA	2598	N			332	35.429	37.066	60.532		24.33
MOTA	2599	CA	LEU			36.003	38.352	60.235		24.25
ATOM	2600	C			332	37.005	38.862	61.245		28.60
MOTA	2601	0			332	37.967	39.475	60.856		27.13
ATOM	2602	CB	LEU			34.859	39.381	60.194		26.61
MOTA	2603	CG	LEU			34.601	40.095	58.879		36,54
MOTA	2604		LEU			35.152	39.339	57.682		36.23
MOTA	2605		LEU			33.101	40.275	58.728		41.67
MOTA	2606	N	PHE			36.751	38.659	62.546		24.79
MOTA	2607	CA	PHE			37.582	39.191	63.600		21.10
MOTA	2608	C	PHE	Α	333	38.244	38.192	64.501	1.00	27.46
MOTA	2609	0	PHE	Α	333	39.012	38.603	65.373	1.00	29.51
MOTA	2610	CB	PHE	Α	333	36.818	40.254	64.422	1.00	22.40
ATOM	2611	CG	PHE	Α	333	36.095	41.213	63.494	1.00	25.14
MOTA	2612	CD1	PHE	A	333	36.809	42.065	62.652	1.00	28.93
ATOM	2613	CD2	PHE	A	333	34.703	41.228	63.408	1.00	30.64
ATOM	2614	CEI	PHE	Α	333	36.162	42.922	61.762	1.00	28.44
ATOM	2615	CE2	PHE	Α	333	34.030	42.078	62.528	1.00	32.97
ATOM	2616	CZ	PHE			34.768	42.924	61.701		29.30
ATOM	2617	N	GLY			37.949	36.900	64.345		19.09
ATOM	2618	CA	GLY			38.595	35.883	65.190		18.79
ATOM	2619	C	GLY			37.676	35.152	66.174		25.13
MOTA	2620	0	GLY			36.715	35.726	66.682		22.90
ATOM	2621	N	GLU			38.009	33.720	66.443		22.16
ATOM			GLU							
	2622	CA				37.257	33.042	67.365		19.70
ATOM	2623	C	GLU			37.224	33.669			22.27
MOTA	2624	0	GLU			36.233	33.542	69.434		24.18
MOTA	2625	CB	GLU			37.860	31.660	67.537		21.69
MOTA	2626	CG	GLU			36.999	30.801	68.494		28.17
MOTA	2627	CD	GLU			35.731	30.310	67.851		24.07
MOTA	2628	OE1	GLU	Α	335	35.182	30.867	66.895	1.00	28.59
MOTA	2629	OE2	GLU	A	335	35.314	29.203	68.401	1.00	30.19
MOTA	2630	N	LYS	Α	336	38.307	34.334	69.032	1.00	17.40
MOTA	2631	CA	LYS	A	336	38.409	35.015	70.303	1.00	19.68
MOTA	2632	C	LYS			37.314	36.051	70.418	1.00	26.83
ATOM	2633	0	LYS			36.694	36.265	71.470	1.00	27.03
ATOM	2634	CB	LYS			39.767	35.672	70.537		18.78
ATOM	2635	CG	LYS			40.753	34.643	71.090		24.32
ATOM	2636	CD	LYS			42.194	35.114	71.209		26.26
ATOM	2637	CE	LYS			43.158	33.937	71.421		62.48
ATOM	2638	NZ	LYS			44.531	34.163	70.924		65.81
ATOM	2030	TA 57	כות	А	220	44.33T	34.103	, 0. 244	1.00	00.01

3 77032					25 222				
MOTA	2639	N	PHE A		37.082	36.725	69.329	1.00 18.9	
ATOM	2640	CA	PHE A		36.039	37.711	69.359	1.00 17.2	21
MOTA	2641	C	PHE A	337	34.655	37.024	69.454	1.00 20.3	14
MOTA	2642	0	PHE A	337	33.746	37.513	70.132	1.00 20.4	44
MOTA	2643	CB	PHE A		36.127	38.575	68.102	1.00 18.	
MOTA	2644	CG	PHE A		35.261				
						39.817	68.112	1.00 21.	
MOTA	2645		PHE A		35.319	40.723	69.175	1.00 26.	55
MOTA	2646	CD2	PHE A	337	34.405	40.095	67.044	1.00 23.2	27
MOTA	2647	CE1	PHE A	337	34.543	41.883	69.192	1.00 27.	57
MOTA	2648	CE2	PHE A	337	33.633	41.256	67.026	1.00 25.3	34
ATOM	2649	CZ	PHE A		33.707	42.141	68.106	1.00 25.0	
ATOM	2650	N	ARG A		34.477				
						35.901	68.751	1.00 14.2	
ATOM	2651	CA	ARG A		33.217	35.202	68.800	1.00 14.0	
ATOM	2652	C	ARG A	. 338	32.926	34.834	70.234	1.00 20.0	03
ATOM	2653	0	ARG A	. 338	31.809	34.975	70.702	1.00 19.	54
ATOM	2654	CB	ARG A	338	33.224	33.937	67.959	1.00 17.5	99
ATOM	2655	CG	ARG A	338	31.869	33.248	67.913	1.00 18.2	25
ATOM	2656	CD	ARG A		31.813	32.116	66.876	1.00 21.	
ATOM	2657								
		NE	ARG A		32.426	30.901	67.397	1.00 16.3	
ATOM	2658	CZ	ARG A		31.790	29.798	67.805	1.00 23.4	
MOTA	2659	NHl	ARG A	. 338	30.473	29.632	67.750	1.00 18.	92
MOTA	2660	NH2	ARG A	. 338	32.514	28.791	68.274	1.00 21.0	62
MOTA	2661	N	HIS A	. 339	33.937	34.373	70.942	1.00 14.5	98
MOTA	2662	CA	HIS A	339	33.723	33.987	72.330	1.00 16.3	26
ATOM	2663	C	HIS A		33.365	35.174	73.245	1.00 17.3	
	2664	o	HIS A			35.096	74.153	1.00 14.	
ATOM					32.516				
ATOM	2665	CB	HIS A		34.928	33.190	72.871	1.00 16.3	
ATOM	2666	CG	HIS A	. 339	34.831	31.770	72.472	1.00 18.3	27
ATOM	2667		HIS A		34.797	30.768	73.418	1.00 20.0	80
ATOM	2668	CD2	HIS A	339	34.764	31.220	71.243	1.00 20.	71
ATOM	2669	CE1	HIS A	. 339	34.709	29.622	72.759	1.00 20.2	27
ATOM	2670	NE2	HIS A	339	34.673	29.865	71.458	1.00 21.3	30
ATOM	2671	N	PHE A		34.014	36.275	72.957	1.00 12.	
ATOM	2672	CA	PHE A		33.817	37.499	73.664	1.00 14.0	
MOTA	2673	C	PHE A		32.362	37.955	73.510	1.00 19.5	
MOTA	2674	0	PHE A		31.671	38.339	74.478	1.00 17.	
MOTA	2675	CB	PHB A	340	34.807	38.566	73.162	1.00 14.0	96
ATOM	2676	CG	PHE A	340	34.520	39.960	73.671	1.00 16.3	25
ATOM	2677	CD1	PHE A	340	34.983	40.378	74.921	1.00 14.0	б1
ATOM	2678	CD2	PHE A	340	33.804	40.871	72.889	1.00 20.4	48
ATOM	2679	CE1	PHE A	340	34.738	41.654	75.420	1.00 11.0	01
ATOM	2680		PHE A		33.545	42.161	73.362	1.00 21.4	
ATOM	2681	CZ	PHE A		34.016	42.538	74.621	1.00 17.2	
ATOM	2682	N	ASN A		31.884	37.895	72.283	1.00 14.9	
MOTA	2683	CA	ASN A		30.516	38.301	72.016	1.00 15.	
ATOM	2684	С	asn a	341	29.537	37.350	72.647	1.00 18.3	33
ATOM	2685	0	asn a	341	28.504	37.754	73.139	1.00 18.0	00
MOTA	2686	CB	ASN A	341	30.279	38.402	70.503	1.00 17.	58
MOTA	2687	CG	ASN A		30.906	39.669	69.927	1.00 34.2	
MOTA	2688		ASN A		30.933	40.739	70.564	1.00 30.	
MOTA			ASN A		31.350			1.00 41.	
	2689					39.558	68.692		
MOTA	2690	N	ALA A		29.877	36.091	72.603	1.00 14.0	
MOTA	2691	CA	ALA A		29.052	35.043	73.180	1.00 16.9	90
MOTA	2692	C	ALA A	342	28.841	35.269	74.664	1.00 19.2	23
ATOM	2693	0	ALA A	342	27.716	35.180	75.158	1.00 16.2	20
ATOM	2694	CB	ALA A		29.592	33.610	72.926	1.00 13.6	
ATOM	2695	N	LEU A		29.943	35.565	75.359	1.00 14.6	
ATOM		CA	LEU A						
A I OM	2696	CA	про А	343	29.932	35.784	76.802	1.00 14.2	23

ATOM	2697	C	LEU	A	343	29.145	37.001	77.172	1.00 15.26
MOTA	2698	0	LEU	A	343	28.437	36.987	78.144	1.00 17.28
ATOM	2699	CB	LEU	A	343	31.338	35.830	77.389	1.00 14.50
MOTA	2700	CG	LEU	A	343	31.392	35.853	78.888	1.00 19.65
MOTA	2701	CD1	LEU	Α	343	30.614	34.660	79.473	1.00 19.94
ATOM	2702		LEU			32.862	35.680	79.227	1.00 19.54
ATOM	2703	N	GLY	A	344	29.269	38.039	76.392	1.00 13.33
ATOM	2704	CA			344	28.516	39.252	76.617	1.00 13.13
ATOM	2705	C			344	26.993	38.975	76.424	1.00 17.09
ATOM	2706	0			344	26.209	39.525	77.181	1.00 18.43
ATOM	2707	N			345	26.603	38.115	75.431	1.00 15.02
ATOM	2708	CA	GLY			25.228	37.703	75.168	1.00 12.69
ATOM	2709	C			345	24.699	37.028	76.459	1.00 19.95
ATOM	2710	o			345	23.583	37.271	76.883	1.00 19.12
ATOM	2711	N			346	25.515	36.189	77.135	1.00 16.29
	2712	CA			346	25.126	35.535	78.389	1.00 14.14
ATOM		CA			346	24.797	36.599	79.432	1.00 22.96
MOTA	2713							80.202	1.00 22.35
MOTA	2714	0			346	23.812	36.495		1.00 17.33
MOTA	2715	CB			346	26.221	34.583	78.935	1.00 15.13
ATOM	2716	CG			346	25.805	33.923	80.234	
ATOM	2717	CD1	TRP			26.003	34.405	81.508	1.00 16.98
ATOM	2718	CD2	TRP			25.091	32.675	80.386	1.00 15.17
ATOM	2719	NE1	TRP			25.469	33.520	82.420	1.00 16.47
ATOM	2720	CE2			346	24.903	32.462	81.769	1.00 17.52
ATOM	2721	CE3			346	24.593	31.728	79.481	1.00 15.86
MOTA	2722	CZ2	TRP			24.228	31.326	82.257	1.00 16.80
MOTA	2723	CZ3			346	23.949	30.619	79.970	1.00 17.27
ATOM	2724	CH2			346	23.761	30.427	81.347	1.00 17.06
MOTA	2725	N			347	25.620	37.668	79.449	1.00 15.29
ATOM	2726	CA			347	25.395	38.744	80.397	1.00 13.67
MOTA	2727	C	GLY			24.083	39.473	80.141	1.00 17.65
ATOM	2728	0			347	23.415	39.859	81.083	1.00 18.50
MOTA	2729	N	GLU			23.728	39.660	78.868	1.00 16.50
ATOM	2730	CA	GLU			22.474	40.310	78.494	1.00 16.15
MOTA	2731	C	GLU			21.306	39.438	78.939	1.00 16.51
MOTA	2732	0			348	20.259	39.922	79.420	1.00 15.73
MOTA	2733	CB			348	22.445	40.591	76.996	1.00 17.40
MOTA	2734	CG			348	23.386	41.764	76.683	1.00 24.32
MOTA	2735	CD			348	22.918	43.017	77.378	1.00 50.61
MOTA	2736	OE1	GLU			21.754	43.390	77.378	1.00 54.41
MOTA	2737	OE2	GLU	•		23.877	43.633	78.016	1.00 27.35
MOTA	2738	N			349	21.525	38.115	78.807	1.00 14.77
MOTA	2739	CA	LEU			20.541	37.132	79.269	1.00 16.97
MOTA	2740	С			349	20.329	37.268	80.814	1.00 19.32
MOTA	2741	0			349	19.193	37.312	81.286	1.00 17.99
MOTA	2742	CB			349	20.915	35.681	78.924	1.00 15.80
ATOM	2743	CG			349	19.824	34.699	79.338	1.00 19.63
MOTA	2744		LEU			18.534	34.994	78.565	1.00 17.40
MOTA	2745	CD2	LEU			20.304	33.265	79.088	1.00 21.23
MOTA	2746	N			350	21.405	37.344	81.603	1.00 11.38
MOTA	2747	CA			350	21.262	37.507	83.026	1.00 13.30
MOTA	2748	C			350	20.449	38.753	83.318	1.00 22.11
MOTA	2749	0	GLN	A	350	19.613	38.805	84.221	1.00 23.26
ATOM	2750	CB	GLN	A	350	22.637	37.748	83.635	1.00 17.68
MOTA	2751	CG			350	23.590	36.553	83.432	1.00 17.78
MOTA	2752	CD	GLN	A	350	24.971	36.862	84.006	1.00 21.19
MOTA	2753	OE1	GLN	Α	350	25.561	36.059	84.728	1.00 29.39
ATOM	2754	NE2	GLN	Α	350	25.485	38.043	83.712	1.00 20.71

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ATOM	2755	N ~-	ASN			20.711	39.786	82.539		16.08
MOTA	2756	CA	ASN			20.019	41.023	82.694		15.68
ATOM	2757	С	ASN			18.530	40.851	82.433	1.00	22.65
ATOM	2758	0	ASN			17.688	41.307	83.234	1.00	18.44
MOTA	2759	CB	asn	Α	351	20.577	42.095	81.736	1.00	18.73
MOTA	2760	CG	ASN	A	351	21.934	42.637	82.197	1.00	14.85
ATOM	2761	OD1	ASN	Α	351	22.426	42.257	83.267	1.00	23.05
ATOM	2762	ND2	ASN	A	351	22.551	43.464	81.352	1.00	19.82
ATOM	2763	N	SER			18.195	40.218	81.299	1.00	17.59
ATOM	2764	CA	SER			16.788	40.020	80.979		16.98
MOTA	2765	С	SER			16.077	39.199	82.034		19.09
ATOM	2766	ō	SER			14.907	39.453	82.392		21.78
ATOM	2767	СВ	SER			16.621	39.355	79.633		25.92
ATOM	2768	OG	SER			16.959	40.271	78.629		
										39.51
ATOM	2769	N	VAL			16.788	38.181	82.510		15.36
ATOM	2770	CA	VAL			16.243	37.318	83.544		16.80
MOTA	2771	C	VAL			15.963	38.106	84.810		23.73
ATOM	2772	0	VAL			14.900	37.966	85.420		19.97
ATOM	2773	CB	VAL			17.083	36.073	83.808	1.00	18.09
MOTA	2774	CG1	VAL	Α	353	16.540	35.288	84.989	1.00	18.20
ATOM	2775	CG2	VAL	Α	353	17.021	35.169	82.571	1.00	19.40
MOTA	2776	N	LYS	Α	354	16.930	38.952	85.184	1.00	19.41
ATOM	2777	CA	LYS	Α	354	16.804	39.739	86.375	1.00	18.40
ATOM	2778	C	LYS	Α	354	15.648	40.702	86.261	1.00	25.72
MOTA	2779	0	LYS			14.806	40.856	87.147	1.00	23.94
ATOM	2780	СВ	LYS	A	354	18.090	40.464	86.695	1.00	25.22
ATOM	2781	CG	LYS			18.027	41.168	88.047		42.11
ATOM	2782	CD	LYS			19.202	42.103	88.264		54.17
ATOM	2783	CE	LYS			19.258	42.717	89.654		46.55
ATOM	2784	NZ	LYS			20.438	43.583	89.846		64.93
ATOM	2785	N	THR			15.596	41.356	85.140		21.59
ATOM	2786	CA	THR			14.538	42.307	84.882		21.16
ATOM	2787	C	THR			13.127	41.703	85.000		26.96
ATOM	2788	0					42.192	85.741		
			THR			12.280				21.59
MOTA	2789	CB	THR			14.786	42.962	83.520		26.90
ATOM	2790	OG1	THR			15.896	43.824	83.628		29.56
ATOM	2791	CG2	THR			13.546	43.707	83.039		41.34
ATOM	2792	N	PHE			12.855	40.607	84.285		22.14
ATOM	2793	CA	PHE			11.550	39.993	84.349		18.19
ATOM	2794	С	PHB			11.308	39.245	85.600		16.86
ATOM	2795	0	PHE			10.177	39.093	85.989		19.45
MOTA	2796	CB	PHE			11.490	38.867	83.333		22.01
MOTA	2797	CG	PHE			11.175	39.327	81.967		24.96
ATOM	2798		PHE			10.016	40.069	81.747	1.00	31.09
MOTA	2799		PHE			11.992	38.977	80.890	1.00	27.87
MOTA	2800	CE1	PHE	A	356	9.686	40.514	80.466	1.00	34.87
MOTA	2801	CE2	PHE	А	356	11.658	39.390	79.598	1.00	35.46
ATOM	2802	CZ	PHE	A	356	10.509	40.161	79.391	1.00	36.07
ATOM	2803	N	GLY	Α	357	12.355	38.671	86.149	1.00	13.91
ATOM	2804	CA	GLY	Α	357	12.250	37.789	87.324	1.00	14.94
ATOM	2805	С	GLY			12.506	36.315	86.859	1.00	18.85
MOTA	2806	0	GLY			12.081	35.910	85.757		20.96
ATOM	2807	N	GLU			13.188	35.511	87.690		14.21
ATOM	2808	CA	GLU			13.548	34.176	87.315		18.10
ATOM	2809	C	GLU			12.406	33.208	87.139		22.35
MOTA	2810	0	GLU			12.594	32.093	86.599		18.73
ATOM	2811	СВ	GLU			14.620	33.586	88.215		20.85
		CG								
ATOM	2812	CG	GLU	H	330	14.021	33.077	89.527	1.00	35.73

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ATOM	2813	CD			358	15.008	33.053	90.661	1.00 64.53
MOTA	2814	0E1	GLU			16.138	32.655	90.520	1.00 38.29
MOTA	2815	OE2	GLU			14.517	33.496	91.801	1.00 89.00
ATOM	2816	N			359	11.222	33.608	87.576	1.00 16.44
ATOM	2817	CA	THR	A	359	10.112	32.687	87.414	1.00 17.09
ATOM	2818	C	THR	Α	359	9.142	33.199	86.407	1.00 18.44
ATOM	2819	0	THR	Α	359	8.076	32.662	86.290	1.00 19.27
ATOM	2820	CB	THR	Α	359	9.359	32.432	88.713	1.00 21.12
ATOM	2821	OG1	THR	Α	359	8.721	33.635	89.097	1.00 20.02
ATOM	2822	CG2	THR	Α	359	10.295	31.956	89.804	1.00 20.69
ATOM	2823	N			360	9.516	34.245	85.712	1.00 13.71
ATOM	2824	CA			360	8.666	34.841	84.723	1.00 14.97
ATOM	2825	C	HIS			8.553	33.974	83.467	1.00 20.83
ATOM	2826	o	HIS			9.543	33.532	82.898	1.00 18.41
ATOM	2827	СВ	HIS			9.171	36.224	84.380	1.00 16.95
		CG							
ATOM	2828		HIS			8.149	36.963	83.639	1.00 19.78
ATOM	2829		HIS			7.496	38.077	84.178	1.00 23.17
ATOM	2830		HIS			7.657	36.712	82.406	1.00 21.01
MOTA	2831		HIS			6.622	38.481	83.251	1.00 22.01
ATOM	2832		HIS			6.711	37.664	82.171	1.00 24.05
ATOM	2833	N	PRO	A	361	7.318	33.722	83.043	1.00 21.94
MOTA	2834	CA	PRO	Α	361	7.096	32.895	81.876	1.00 21.68
MOTA	2835	C	PRO	Α	361	7.728	33.450	80.602	1.00 23.08
MOTA	2836	0	PRO	Α	361	7.928	32.715	79.648	1.00 19.72
ATOM	2837	CB	PRO	Α	361	5.585	32.700	81.755	1.00 22.85
MOTA	2838	CG	PRO	Α	361	5.027	33.012	83.134	1.00 28.59
MOTA	2839	CD	PRO	Α	361	6.048	33.917	83.803	1.00 21.80
ATOM	2840	N	PHE	A	362	8.055	34.731	80.582	1.00 20.70
ATOM	2841	CA	PHE			8.690	35.270	79.394	1.00 22.53
MOTA	2842	C	PHE			10.150	34.915	79.350	1.00 20.33
ATOM	2843	0	PHE			10.817	35.272	78.398	1.00 21.38
ATOM	2844	CB	PHE			8.534	36.768	79.124	1.00 25.38
ATOM	2845	CG	PHE			7.103	37.248	79.022	1.00 28.56
ATOM	2846	CD1	PHE			6.042	36.377	78.783	1.00 29.73
ATOM	2847		PHE			6.826	38.604	79.181	1.00 29.51
ATOM	2848	CB1	PHE			4.730	36.849	78.687	1.00 29.17
ATOM	2849		PHE			5.517	39.086	79.106	1.00 32.58
ATOM	2850	CZ	PHE			4.465	38.211	78.869	1.00 27.13
ATOM	2851	N	THR			10.641	34.241	80.382	1.00 17.45
ATOM		CA	THR				33.825	80.375	1.00 17.45
	2852	CA	THR			12.032 12.190		79.820	1.00 10.20
ATOM	2853						32.400		1.00 17.12
ATOM	2854	0	THR			13.271	31.848	79.771	
ATOM	2855	CB	THR			12.718	33.967	81.730	1.00 15.97
ATOM	2856		THR			12.001	33.241	82.735	1.00 18.45
ATOM	2857	CG2	THR			12.820	35.453	82.059	1.00 13.79
ATOM	2858	N	LYS			11.100	31.782	79.410	1.00 13.55
ATOM	2859	CA	LYS		·	11.179	30.425	78.850	1.00 12.81
MOTA	2860	C	LYS			11.607		77.406	1.00 17.59
MOTA	2861	0	LYS			11.315	31.518	76.718	1.00 18.05
MOTA	2862	CB	LYS	Α	364	9.807	29.741	78.851	1.00 14.15
ATOM	2863	CG	LYS	Α	364	9.285	29.478	80.259	1.00 22.73
ATOM	2864	CD	LYS	A	364	7.787	29.209	80.302	1.00 24.91
ATOM	2865	CE	LYS	Α	364	7.322	28.851	81.703	1.00 24.87
ATOM	2866	NZ	LYS	A	364	6.143	27.983	81.688	1.00 36.58
ATOM	2867	N	LEU	A	365	12.274	29.534	76.906	1.00 14.53
ATOM	2868	CA	LEU	A	365	12.667	29.596	75.511	1.00 16.17
MOTA	2869	C	LEU			11.421	29.458	74.619	1.00 19.12
ATOM	2870	0	LEU			11.229	30.201	73.656	1.00 19.11

MOTA	2871	CB	LEU	A	365	13.718	28.500	75.236	1.00 16.49
MOTA	2872	CG	LEU	A	365	14.458	28.603	73.913	1.00 21.42
MOTA	2873	CD1	LEU	Α	365	15.106	29.973	73.789	1.00 17.49
MOTA	2874	CD2	LEU	A	365	15.537	27.525	73.929	1.00 21.26
ATOM	2875	N	VAL			10.560	28.499	74.950	1.00 16.34
ATOM	2876	CA	VAL			9.318	28.315	74.230	1.00 18.86
MOTA	2877	C	LAV			8.188	28.979	75.059	1.00 22.69
ATOM	2878	Ō	VAL			7.931	28.576	76.180	1.00 21.37
MOTA	2879	CB	VAL			9.012	26.855	73.923	1.00 22.73
ATOM	2880		VAL			7.741	26.775	73.070	1.00 20.71
ATOM	2881		VAL			10.189	26.241	73.158	1.00 22.18
ATOM	2882	N	VAL			7.537	30.015	74.521	1.00 20.21
ATOM	2883	CA	VAL			6.487	30.723	75.263	1.00 21.75
ATOM	2884	C	VAL			5.071	30.530	74.765	1.00 31.76
ATOM	2885	0	VAL			4.818	30.099	73.637	1.00 33.07
	2886	СВ	VAL			6.737	32.204	75.201	1.00 24.64
ATOM			VAL			8.102	32.527	75.814	1.00 23.06
ATOM	2887		VAL			6.628	32.633	73.739	1.00 25.37
ATOM	2888						30.913	75.631	1.00 25.37
ATOM	2889	N	ASP ASP			4.134 2.717		75.295	1.00 24.49
ATOM	2890	CA					30.841		1.00 24.49
MOTA	2891	C	ASP			2.203	32.251	75.126	1.00 19.48
MOTA	2892	0	ASP			1.991	32.972	76.069	
ATOM	2893	CB	ASP			1.904	30.081	76.365	1.00 28.12
MOTA	2894	CG	ASP			0.482	29.882	75.908	1.00 37.10
MOTA	2895		ASP			0.023	30.365	74.885	1.00 30.33
MOTA	2896		ASP			-0.202	29.155	76.725	1.00 34.29
ATOM	2897	N	LEU			2.046	32.675	73.915	1.00 17.90
ATOM	2898	CA	LEU			1.611	34.025	73.688	1.00 19.61
ATOM	2899	C	LEU			0.107	34.208	73.712	1.00 23.98
ATOM	2900	0	LEU			-0.419	35.236	73.282	1.00 27.35
ATOM	2901	CB	LEU			2.202	34.607	72.383	1.00 19.83
ATOM	2902	CG	LEU			3.702	34.866	72.488	1.00 24.77
ATOM	2903		LEU			4.217	35.374	71.135	1.00 20.98
MOTA	2904		LEU			3.998	35.838	73.626	1.00 23.40
ATOM	2905	И	THR			-0.592	33.220	74.199	1.00 22.21
MOTA	2906	CA	THR			-2.033	33.349	74.254	1.00 22.43 1.00 28.86
MOTA	2907	C	THR			-2.440	34.563	75.093	1.00 27.57
ATOM	2908	0	THR			-2.147	34.665	76.295	
MOTA	2909	CB	THR			-2.678	32.128	74.916	1.00 31.88
MOTA	2910	OG1	THR			-2.352	30.960	74.212	1.00 35.39
MOŢA	2911	CG2	THR			-4.183	32.323	74.893	1.00 34.18
ATOM	2912	N	ASP			-3.130	35.489	74.439	1.00 28.25
MOTA	2913	CA	ASP			-3.595	36.685	75.107	1.00 27.92
MOTA	2914	C	ASP			-2.498	37.603	75.529	1.00 28.33
ATOM	2915	0	ASP			-2.665	38.374	76.445	1.00 25.40
MOTA	2916	CB	ASP			-4.508	36.369	76.293	1.00 32.10
MOTA	2917	CG	ASP			-5.847	35.839	75.826	1.00 46.60
ATOM	2918		ASP			-6.474	36.318	74.880	1.00 45.97
MOTA	2919		ASP			-6.232	34.791	76.516	1.00 45.84
MOTA	2920	N	ILE			-1.389	37.540	74.841	1.00 25.39
ATOM	2921	CA	ILE			-0.306	38.436	75.177	1.00 24.43
MOTA	2922	С	ILE			0.113	39.165	73.929	1.00 24.31
ATOM	2923	0	ILE			0.327	38.512	72.915	1.00 26.21
MOTA	2924	CB	ILE			0.879	37.637	75.654	1.00 28.18
MOTA	2925		ILE			0.606	37.086	77.045	1.00 26.69
ATOM	2926		ILE			2.092	38.554	75.644	1.00 31.78
ATOM	2927	CD1	ILE			0.652	38.193	78.085	1.00 46.61
ATOM	2928	N	asp	A	373	0.225	40.488	73.993	1.00 22.30

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ATOM	2929	CA			373	0.645	41.274	72.826	1.00 21.27
ATOM	2930	С			373	2.131	41.004	72.577	1.00 25.86
MOTA	2931	0			373	2.974	41.293	73.442	1.00 23.22
MOTA	2932	CB	ASP	A	373	0.424	42.793	73.054	1.00 22.31
ATOM	2933	CG	ASP	Α	373	0.891	43.654	71.883	1.00 29.73
MOTA	2934	OD1	ASP	A	373	1.515	43.194	70.941	1.00 31.76
MOTA	2935	OD2	ASP	Α	373	0.555	44.930	71.969	1.00 27.86
ATOM	2936	N			374	2.484	40.463	71.409	1.00 22.50
ATOM	2937	CA			374	3.889	40.171	71.166	1.00 23.16
ATOM	2938	C			374	4.850	41.301	71.504	1.00 24.89
		0							
ATOM	2939				374	5.888	41.089	72.161	1.00 21.00
MOTA	2940	CB			374	3.997	39.698	69.728	1.00 23.24
MOTA	2941	CG			374	2.640	39.097	69.454	1.00 24.05
MOTA	2942	CD			374	1.667	39.848	70.346	1.00 21.54
ATOM	2943	N			375	4.497	42.498	71.044	1.00 20.29
MOTA	2944	CA	ASP	A	375	5.313	43.679	71.309	1.00 19.41
MOTA	2945	C	ASP	Α	375	5.632	43.849	72.789	1.00 22.07
MOTA	2946	0	ASP	A	375	6.619	44.453	73.160	1.00 22.53
MOTA	2947	CB	ASP	A	375	4.539	44.916	70.867	1.00 18.53
MOTA	2948	CG	ASP	Α	375	4.597	45.029	69.394	1.00 26.47
ATOM	2949	OD1	ASP	A	375	5.523	44.560	68.735	1.00 24.70
ATOM	2950		ASP			3.591	45.714	68.900	1.00 27.57
MOTA	2951	N			376	4.752	43.349	73.624	1.00 18.89
ATOM	2952	CA			376	4.911	43.461	75.053	1.00 20.94
ATOM	2953	C			376	5.827	42.362	75.581	1.00 23.60
MOTA	2954	0			376	6.514	42.551	76.560	1.00 22.26
						3.530			
ATOM	2955	CB			376		43.386	75.725	1.00 24.27
ATOM	2956		VAL			3.614	42.799	77.113	1.00 24.15
MOTA	2957		VAL			2.846	44.741	75.763	1.00 21.88
ATOM	2958	N	ALA			5.841	41.202	74.924	1.00 20.52
MOTA	2959	CA			377	6.671	40.081	75.380	1.00 19.34
MOTA	2960	C			377	8.119	40.144	74.936	1.00 21.06
ATOM	2961	0			377	8.995	39.531	75.509	1.00 20.54
ATOM	2962	CB	ALA	A	377	6.077	38.746	74.916	1.00 19.29
MOTA	2963	N	TYR	A	378	8.349	40.881	73.894	1.00 18.62
MOTA	2964	CA	TYR	A	378	9.653	41.015	73.291	1.00 18.37
MOTA	2965	C	TYR	A	378	10.771	41.278	74.262	1.00 23.29
MOTA	2966	0	TYR	A	378	10.680	42.178	75.069	1.00 21.02
ATOM	2967	CB	TYR	A	378	9.627	42.149	72.292	1.00 18.13
ATOM	2968	CG	TYR	Α	378	10.914	42.258	71.523	1.00 18.41
MOTA	2969	CD1	TYR	Α	378	11.271	41.249	70.629	1.00 18.40
MOTA	2970	CD2	TYR	A	378	11.752	43.361	71.682	1.00 17.09
MOTA	2971		TYR			12.447	41.326	69.885	1.00 16.77
ATOM	2972	CE2	TYR			12.933	43.450	70.942	1.00 17.00
MOTA	2973	CZ			378		42.433	70.048	1.00 19.25
ATOM	2974	OH	TYR			14.460	42.510	69.311	1.00 20.79
ATOM	2975	N			379	11.853	40.510	74.137	1.00 17.96
	2976				379				
ATOM		CA				13.014	40.665	74.999	1.00 16.74
MOTA	2977	C	SER			14.186	39.980	74.376	1.00 18.88
ATOM	2978	0	SER			14.077	39.440	73.300	1.00 17.88
ATOM	2979	CB	SER			12.818	40.037	76.382	1.00 18.10
ATOM	2980	OG	SER			12.971	38.616	76.326	1.00 17.76
ATOM	2981	N	SER			15.304	39.989	75.093	1.00 17.79
MOTA	2982	CA	SER			16.566	39.332	74.679	1.00 17.84
ATOM	2983	C	SER	Α	380	16.535	37.832	74.918	1.00 19.09
ATOM	2984	0	SER			17.373	37.094	74.438	1.00 19.70
MOTA	2985	CB	SER	Α	380	17.713	39.827	75.547	1.00 22.61
MOTA	2986	OG	SER	A	380	18.062	41.128	75.175	1.00 37.65

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MOTA	2987	N	VAL			15.584	37.373	75.701	1.00 15.92
ATOM	2988	CA	VAL			15.506	35.970	75.994	1.00 13.28
MOTA	2989	C	VAL	Α	381	15.563	35.076	74.757	1.00 17.08
MOTA	2990	0	VAL	Α	381	16.405	34.186	74.689	1.00 16.24
MOTA	2991	CB	VAL	A	381	14.307	35.616	76.897	1.00 14.10
ATOM	2992	CG1	VAL	Α	381	14.159	34.101	77.046	1.00 12.50
ATOM	2993	CG2	VAL	Α	381	14.465	36.274	78.251	1.00 13.34
ATOM	2994	N	PRO	Α	382	14.662	35.231	73.784	1.00 14.08
ATOM	2995	CA	PRO			14.745	34.310	72.672	1.00 14.26
MOTA	2996	C	PRO			16.092	34.383	71.956	1.00 19.53
		0	PRO			16.583	33.396	71.330	1.00 17.52
ATOM	2997						34.579		
ATOM	2998	CB	PRO			13.556		71.743	1.00 13.55
ATOM	2999	CG	PRO			13.121	35.968	72.129	1.00 16.51
ATOM	3000	CD	PRO			13.525	36.140	73.581	1.00 13.04
MOTA	3001	N	TYR			16.712	35.556	71.988	1.00 14.90
MOTA	3002	CA	TYR	A	383	17.995	35.727	71.326	1.00 15.56
MOTA	3003	C	TYR	A	383	19.142	35.019	72.036	1.00 19.49
MOTA	3004	0	TYR	А	383	19.942	34.276	71.454	1.00 18.21
MOTA	3005	CB	TYR	Α	383	18.371	37.226	71.280	1.00 16.26
MOTA	3006	CG	TYR	A	383	17.518	38.078	70.360	1.00 17.31
ATOM	3007	CD1	TYR	A	383	16.257	38.519	70.768	1.00 17.98
MOTA	3008	CD2	TYR			17.984	38.490	69.106	1.00 15.67
ATOM	3009	CE1	TYR			15.462	39.310	69.936	1.00 17.12
ATOM	3010	CE2	TYR			17.202	39.274	68.259	1.00 17.10
ATOM	3011	CZ	TYR			15.940	39.688	68.686	1.00 22.02
ATOM	3012	ОН	TYR			15.158	40.465	67.893	1.00 18.91
ATOM	3013	N	GLU			19.227	35.308	73.306	1.00 14.23
MOTA	3014	CA	GLU			20.301	34.842	74.136	1.00 12.36
		C	GLU			20.128	33.494	74.752	1.00 12.38
ATOM	3015	0					32.756	74.866	1.00 17.78
ATOM	3016		GLU			21.096			
ATOM	3017	CB	GLU			20.707	35.952	75.093	1.00 12.48
ATOM	3018	CG	GLU			21.058	37.217	74.275	1.00 15.08
ATOM	3019	CD	GLU			22.403	37.098	73.589	1.00 31.19
ATOM	3020	OE1				23.132	36.113	73.647	1.00 22.19
MOTA	3021	OE2	GLU			22.720	38.171	72.935	1.00 23.77
MOTA	3022	N	LYS			18.897	33.118	75.133	1.00 16.58
MOTA	3023	CA	LYS	Α	385	18.771	31.759	75.664	1.00 16.36
ATOM	3024	C	LYS	Α	385	18.891	30.809	74.458	1.00 16.81
ATOM	3025	0	LYS	A	385	19.449	29.705	74.540	1.00 15.97
ATOM	3026	CB	LYS	A	385	17.514	31.508	76.512	1.00 14.73
MOTA	3027	CG	ĻYS	Α	385	17.557	30.142	77.175	1.00 12.89
MOTA	3028	CD	LYS	A	385	16.295	29.802	77.949	1.00 25.17
ATOM	3029	CE	LYS	A	385	16.211	30.454	79.301	1.00 20.12
ATOM	3030	NZ	LYS	A	385	15.202	29.829	80.175	1.00 16.04
ATOM	3031	N	GLY	Α	386	18.374	31.286	73.316	1.00 12.80
MOTA	3032	CA	GLY			18.421	30.480	72.112	1.00 11.62
MOTA	3033	c			386	19.866	30.250	71.689	1.00 17.22
ATOM	3034	ō	GLY			20.289	29.130	71.430	1.00 17.34
ATOM	3035	N			387	20.623	31.333	71.580	1.00 14.79
ATOM	3036	CA			387	22.018	31.218	71.214	1.00 15.40
ATOM	3037	C	PHE			22.766	30.353	72.238	1.00 19.58
								72.236	
MOTA	3038	O			387		29.502		1.00 19.03
MOTA	3039	CB	PHE			22.686	32.579	71.045	1.00 14.79
MOTA	3040	CG	PHE			24.167	32.431	70.988	1.00 13.37
MOTA	3041		PHE			24.895	32.181	69.815	1.00 14.32
MOTA	3042		PHE			24.842	32.519	72.202	1.00 14.90
ATOM	3043		PHE			26.287	32.043	69.857	1.00 12.12
ATOM	3044	CE2	PHE	Α	387	26.233	32.407	72.259	1.00 15.96

3 0034	2045	CZ	20172	~	207	26.954	32.148	71.086	1.00 14.94
ATOM	3045				387				
ATOM	3046	N			388	22.487	30.533	73.522	1.00 16.65
ATOM	3047	CA			388	23.138	29.706	74.541	1.00 17.04
MOTA	3048	С	ALA			22.865	28.231	74.291	1.00 19.93
ATOM	3049	0			388	23.775	27.412	74.356	1.00 20.75
ATOM	3050	CB	ALA	A	388	22.644	30.086	75.936	1.00 17.04
MOTA	3051	N	LEU	A	389	21.595	27.878	74.017	1.00 13.52
ATOM	3052	CA	LEU	A	389	21.270	26.481	73.746	1.00 12.75
ATOM	3053	С	LEU	Α	389	22.142	25.954	72.616	1.00 16.14
MOTA	3054	0	LEU	Α	389	22.804	24.921	72.761	1.00 15.90
ATOM	3055	CB	LEU	A	389	19.792	26.354	73.374	1.00 11.62
ATOM	3056	CG	LEU	Α	389	19.364	24.983	72.909	1.00 15.19
ATOM	3057	CD1	LEU	А	389	19.839	23.930	73.914	1.00 16.82
ATOM	3058		LEU			17.839	24.969	72.839	1.00 15.73
ATOM	3059	N	LEU			22.149	26.690	71.503	1.00 12.97
ATOM	3060	CA	LEU			22.939	26.331	70.348	1.00 13.79
MOTA	3061	C.	LEU			24.426	26.247	70.629	1.00 23.60
MOTA		0	LEU			25.099	25.328	70.136	1.00 23.00
	3062						27.238		
ATOM	3063	CB	PEA			22.718		69.141	
MOTA	3064	CG	LEU			21.238	27.308	68.754	1.00 16.53
ATOM	3065		LEU			21.063	28.259	67.570	1.00 17.80
ATOM	3066		LEU			20.706	25.916	68.416	1.00 19.39
ATOM	3067	N	PHE			24.950	27.195	71.406	1.00 17.01
ATOM	3068	CA			391	26.383	27.213	71.707	1.00 13.81
ATOM	3069	C			391	26.767	25.994	72.507	1.00 18.97
MOTA	3070	0	PHE	A	391	27.788	25.335	72.292	1.00 17.39
MOTA	3071	CB	PHE	Α	391	26.716	28.464	72.505	1.00 16.57
MOTA	3072	CG	PHE	Α	391	28.178	28.832	72.483	1.00 20.15
MOTA	3073	CD1	PHE	Α	391	28.900	28.717	71.295	1.00 23.44
MOTA	3074	CD2	PHE	A	391	28.810	29.322	73.629	1.00 17.67
MOTA	3075	CE1	PHE	A	391	30.242	29.081	71.247	1.00 25.42
MOTA	3076	CE2	PHE	Α	391	30.161	29.679	73.600	1.00 21.60
MOTA	3077	CZ	PHE	A	391	30.872	29.552	72.404	1.00 21.74
MOTA	3078	N	TYR	A	392	25.899	25.688	73.453	1.00 16.76
MOTA	3079	CA	TYR	Α	392	26.093	24.528	74.314	1.00 14.53
MOTA	3080	С	TYR	Α	392	26.030	23.258	73.477	1.00 20.85
MOTA	3081	0	TYR	Α	392	26.888	22.387	73.570	1.00 21.28
MOTA	3082	CB	TYR	Α	392	25.011	24.548	75.389	1.00 11.64
MOTA	3083	CG	TYR	Α	392	24.758	23.236	76.085	1.00 15.88
MOTA	3084	CD1	TYR	Α	392	25.675	22.664	76.969	1.00 18.73
MOTA	3085	CD2	TYR			23.536	22.598	75.901	1.00 17.10
MOTA	3086	CE1	TYR	A	392	25.398	21.453	77.611	1.00 22.29
ATOM	3087	CE2	TYR	Α	392	23.239	21.389	76.536	1.00 17.34
ATOM	3088	CZ			392	24.173	20.821	77.390	1.00 21.65
ATOM	3089	ОН			392	23.844	19.673	78.026	1.00 23.48
ATOM	3090	N	LEU			25.011	23.138	72.629	1.00 14.48
ATOM	3091	CA	LEU			24.964	21.930	71.820	1.00 16.19
MOTA	3092	c	LEU			26.240	21.775	70.996	1.00 21.33
ATOM	3093	o	LEU			26.776	20.671	70.857	1.00 21.58
ATOM	3094	CB	LEU			23.722	21.890	70.882	1.00 15.92
MOTA	3095	CG	LEU			22.420	21.613	71.632	1.00 16.78
			LEU			21.243	21.013	70.715	1.00 16.70
ATOM	3096							72.101	1.00 15.41
MOTA	3097		LEU			22.368	20.168		
MOTA	3098	N	GLU			26.692	22.903	70.431	1.00 17.94
MOTA	3099	CA	GLU			27.891	22.943	69.591	1.00 17.47
MOTA	3100	C	GLU			29.065	22.338	70.325	1.00 22.56
MOTA	3101	0	GLU			29.790	21.498	69.796	1.00 19.52
ATOM	3102	CB	GLU	A	394	28.238	24.372	69.180	1.00 17.77

MOTA	3103	CG	GLU	A	394	29.691	24.466	68.704	1.00 21.87
MOTA	3104	CD	GLU	Α	394	30.088	25.892	68.499	1.00 35.26
ATOM	3105	OE1	GLU	A	394	29.443	26.672	67.835	1.00 37.15
ATOM	3106	OE2	GLU	Α	394	31.185	26.212	69.125	1.00 23.86
ATOM	3107	N	GLN	Α	395	29.226	22.758	71.574	1.00 20.49
ATOM	3108	CA	GLN	Α	395	30.303	22.250	72.400	1.00 20.42
MOTA	3109	C			395	30.092	20.769	72.720	1.00 25.74
ATOM	3110	ō			395	31.016	19.972	72.734	1.00 29.45
ATOM	3111	ÇВ			395	30.474	23.105	73.709	1.00 20.72
		CG			395	31.074		73.765	1.00 15.91
ATOM	3112						24.483		
ATOM	3113	CD			395	31.156	25.473	74.518	1.00 23.39
ATOM	3114		GLN			30.799	25.196	75.685	1.00 18.07
ATOM	3115	NE2			395	31.625	26.663	74.177	1.00 21.74
MOTA	3116	N			396	28.851	20.406	72.981	1.00 21.83
MOTA	3117	CA			396	28.497	19.046	73.343	1.00 20.76
ATOM	3118	C	LEU	Α	396	28.638	18.071	72.176	1.00 23.05
ATOM	3119	0	LEU	A	396	29.032	16.938	72.337	1.00 23.88
ATOM	3120	CB	LEU	А	396	27.054	19.104	73.857	1.00 20.00
MOTA	3121	CG	LEU	Α	396	26.555	17.836	74.446	1.00 25.23
ATOM	3122	CD1	LEU	Α	396	27.296	17.572	75.738	1.00 28.56
ATOM	3123	CD2	LEU	Α	396	25.087	18.002	74.744	1.00 24.07
MOTA	3124	N	LEU	Α	397	28.328	18.524	70.994	1.00 18.54
ATOM	3125	CA	LEU	А	397	28.351	17.694	69.808	1.00 19.54
ATOM	3126	С			397	29.641	17.641	69.009	1.00 27.29
ATOM	3127	Ō			397	29.710	16.985	67.968	1.00 28.65
ATOM	3128	CB			397	27.143	18.043	68.891	1.00 17.91
MOTA	3129	CG			397	25.798	17.909	69.619	1.00 20.05
MOTA	3130		LEU			24.671	18.520	68.789	1.00 18.08
ATOM	3131	CD2				25.520	16.443	69.920	1.00 21.42
ATOM	3132	N			398	30.685	18.313	69.425	1.00 25.76
ATOM	3133	CA			398	31.896	18.173	68.621	1.00 27.87
ATOM	3134	C			398	32.558	19.413	68.060	1.00 29.85
ATOM	3135	0			398	33.621	19.303	67.448	1.00 28.10
	3136	N			399	31.964	20.593	68.243	1.00 24.15
MOTA		CA			399	32.594	21.787	67.719	1.00 21.13
MOTA	3137							66.626	1.00 20.27
ATOM	3138	C			399	31.801	22.444		
ATOM	3139	0			399	30.877	21.901	66.046	1.00 22.03
MOTA	3140	N			400	32.210	23.639	66.373	1.00 21.16
MOTA	3141	CA			400	31.596	24.524	65.434	
MOTA	3142	C			400	31.451	23.932	64.094	1.00 28.95
ATOM	3143	0			400	30.416	24.076	63.432	1.00 28.40
MOTA	3144	CB			400	32.477	25.776	65.359	1.00 22.74
MOTA	3145	CG			400	33.725	25.489	66.168	1.00 26.77
ATOM	3146	CD			400	33.479	24.194	66.918	1.00 24.17
MOTA	3147	N			401	32.529	23.284	63.694	1.00 28.08
MOTA	3148	CA			401	32.553	22.660	62.394	1.00 28.25
MOTA	3149	C			401	31.465	21.607	62.272	1.00 24.96
MOTA	3150	0			401	30.708	21.576	61.308	1.00 21.56
ATOM	3151	CB	GLU	A	401	33.924	22.040	62.187	1.00 31.41
MOTA	3152	CG			401	34.588	22.470	60.879	1.00 50.84
ATOM	3153	CD	GLU	A	401	35.376	21.328	60.314	1.00 94.96
MOTA	3154	OE1	GLU	A	401	35.040	20.166	60.479	1.00100.00
ATOM	3155	OE2	GLU	A	401	36.453	21.702	59.663	1.00100.00
ATOM	3156	N	ILE	A	402	31.378	20.751	63.285	1.00 22.44
MOTA	3157	CA	ILE	A	402	30.375	19.717	63.278	1.00 24.44
ATOM	3158	C	ILE	A	402	28.987	20.324	63.312	1.00 29.62
ATOM	3159	0			402	28.125	19.976	62.502	1.00 22.26
MOTA	3160	CB			402	30.573	18.792	64.436	1.00 28.01

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ATOM	3161		ILE			31.728	17.840		
ATOM	3162	CG2	ILB	Α	402	29.257	18.044	64.720	1.00 31.45
ATOM	3163	CD1	ILE	Α	402	32.086	16.989	65.348	1.00 29.47
MOTA	3164	N	PHE	Α	403	28.806	21.270	64.247	1.00 25.40
ATOM	3165	CA	PHE			27.539	21.974	64.418	1.00 23.64
ATOM	3166	С	PHE			27.131	22.827	63.207	1.00 24.67
MOTA	3167	0	PHB	Α	403	25.940	22.935	62.860	1.00 23.76
MOTA	3168	CB	PHE	Α	403	27.484	22.767	65.750	1.00 23.99
ATOM	3169	CG	PHE	Α	403	26.066	22.896	66.252	1.00 23.55
ATOM	3170		PHE			25.432	21.835	66.909	1.00 25.66
			PHE					66.045	1.00 23.45
ATOM	3171					25.369	24.089		
MOTA	3172		PHE			24.119	21.961	67.368	1.00 26.71
MOTA	3173	CE2	PHE	A	403	24.065	24.245	66.507	1.00 24.58
ATOM	3174	CZ	PHE	A	403	23.454	23.174	67.161	1.00 24.36
ATOM	3175	N	LEU	Α	404	28.103	23.454	62.565	1.00 18.37
ATOM	3176	CA			404	27.752	24.224	61.396	1.00 19.70
		C			404	27.161	23.330	60.312	1.00 23.87
MOTA	3177								
ATOM	3178	0			404	26.262	23.753	59.594	1.00 22.72
MOTA	3179	CB	LEU	Α	404	28.867	25.117	60.847	1.00 20.74
ATOM	3180	CG	LEU	Α	404	29.026	26.425	61.635	1.00 24.87
ATOM	3181	CD1	LEU	Α	404	30.384	27.056	61.345	1.00 26.17
ATOM	3182		LEU			27.944	27.424	61.266	1.00 19.99
ATOM	3183	N			405	27.662	22.078	60.205	1.00 20.85
								59.225	1.00 16.93
MOTA	3184	CA			405	27.173	21.098		
MOTA	3185	С			405	25.687	20.844	59.464	1.00 20.17
MOTA	3186	0	GLY	Α	405	24.872	20.712	58.556	1.00 19.11
MOTA	3187	N	PHE	Α	406	25.346	20.814	60.739	1.00 18.34
MOTA	3188	CA	PHE	Α	406	23.968	20.629	61.142	1.00 19.38
ATOM	3189	C			406	23.149	21.854	60.701	1.00 24.71
ATOM	3190	ō			406	22.127	21.736	60.016	1.00 24.92
ATOM	3191	CB			406	23.811	20.239	62.626	1.00 17.08
ATOM	3192	ÇG			406	22.440	20.588	63.100	1.00 17.29
MOTA	3193	CD1	PHE	Α	406	21.348	19.779	62.795	1.00 18.79
ATOM	3194	CD2	PHE	Α	406	22.229	21.756	63.819	1.00 22.17
MOTA	3195	CE1	PHE	Α	406	20.066	20.089	63.242	1.00 21.72
MOTA	3196	CE2	PHE	Α	406	20.949	22.108	64.245	1.00 25.55
MOTA	3197	CZ			406	19.872	21.266	63.966	1.00 23.17
								61.028	1.00 23.64
ATOM	3198	N			407	23.637	23.049		
MOTA	3199	CA			407	22.944	24.287	60.642	1.00 24.87
MOTA	3200	C	LEU	A	407	22.597	24.312	59.161	1.00 22.41
MOTA	3201	0	LEU	Α	407	21.479	24.620	58.769	1.00 20.72
ATOM	3202	CB	LEU	Α	407	23.791	25.560	60.959	1.00 27.52
ATOM	3203	CG	LEU	Α	407	23.074	26.747	61.652	1.00 34.83
ATOM	3204	CD1	LEU	A	407	24.068	27.866	61.821	1.00 38.37
MOTA	3205		LEU			21.906	27.303	60.863	1.00 36.77
					408	23.587	24.048	58.315	1.00 22.80
MOTA	3206	N							
MOTA	3207	CA			408	23.364	24.064	56.871	1.00 23.13
MOTA	3208	С	LYS	A	408	22.352	22.998	56.426	1.00 22.11
MOTA	3209	0	LYS	Α	408	21.517	23.175	55.536	1.00 20.19
MOTA	3210	CB	LYS	Α	408	24.650	23.961	56.082	1.00 25.07
ATOM	3211	CG	LYS	Α	408	24.372	24.064	54.599	1.00 31.85
ATOM	3212	CD			408	25.620	24.004	53.740	1.00 30.52
					408		24.948	54.189	1.00 44.55
MOTA	3213	CE				26.712			
MOTA	3214	NZ	LYS			27.738	25.166	53.153	1.00 52.58
MOTA	3215	N	ALA	Α	409	22.423	21.861	57.066	1.00 20.83
MOTA	3216	CA	ALA	Α	409	21.481	20.812	56.728	1.00 23.36
ATOM	3217	C	ALA	А	409	20.047	21.215	57.138	1.00 25.95
MOTA	3218	0			409	19.062	20.940	56.447	1.00 23.39
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MOTA	3219	CB	ALA A	409	21.892	19.518	57.422	1.00 24.61
ATOM	3220	N	TYR A		19.971	21.870	58.295	1.00 18.99
MOTA	3221	CA	TYR A		18.742	22.373	58.878	1.00 17.32
		C	TYR A		18.076	23.378	57.950	1.00 20.68
ATOM	3222							
MOTA	3223	0	TYR I		16.882	23.297	57.646	1.00 20.76
MOTA	3224	CB	TYR A		19.046	23.007	60.248	1.00 18.05
MOTA	3225	CG	TYR A		17.953	23.881	60.833	1.00 21.53
ATOM	3226	CD1	TYR A	410	16.772	23.334	61.341	1.00 22.90
ATOM	3227	CD2	TYR A	410	18.137	25.262	60.913	1.00 24.29
MOTA	3228	CE1	TYR A	410	15.778	24.149	61.887	1.00 18.09
MOTA	3229	CE2	TYR A	410	17.168	26.093	61.469	1.00 24.98
MOTA	3230	CZ	TYR A	410	15.993	25.526	61.954	1.00 20.26
MOTA	3231	OH	TYR A	410	15.056	26.328	62.527	1.00 21.69
MOTA	3232	N	VAL A	411	18.869	24.318	57.491	1.00 15.71
ATOM	3233	CA	VAL A		18.383	25.335	56.612	1.00 17.92
ATOM	3234	C	VAL A		17.783	24.734	55.369	1.00 23.98
ATOM	3235	ō	VAL A		16.701	25.099	54.974	1.00 24.28
ATOM	3236	CB	VAL A		19.511	26.312	56.254	1.00 23.58
MOTA	3237	CG1			19.094	27.279	55.139	1.00 22.54
MOTA	3238	CG2			19.940	27.085	57.505	1.00 24.67
		N CG2	GLU A		18.543	23.824	54.750	1.00 25.06
ATOM	3239						53.539	1.00 23.00
ATOM	3240	CA	GLU A		18.177	23.124		
ATOM	3241	C	GLU A		16.919	22.318	53.715	1.00 23.85
ATOM	3242	0	GLU A		16.023	22.366	52.883	1.00 22.54
ATOM	3243	CB		412	19.302	22.173	53.210	1.00 26.35
MOTA	3244	CG	GLU 1		19.444	21.914	51.707	1.00 49.27
MOTA	3245	CD	GLU A		20.800	21.342	51.380	1.00100.00
ATOM	3246	OE1			21.851	21.791	51.838	1.00100.00
ATOM	3247	OB2	GLU A		20.727	20.308	50.566	1.00100.00
ATOM	3248	N	LYS A	413	16.854	21.581	54.824	1.00 17.32
ATOM	3249	CA	LYS A	413	15.695	20.782	55.075	1.00 14.83
MOTA	3250	C	LYS A	413	14.415	21.569	55.203	1.00 20.01
ATOM	3251	0	LYS A	413	13.385	21.115	54.733	1.00 20.56
ATOM	3252	CB	LYS A	413	15.874	19.925	56.283	1.00 15.20
MOTA	3253	CG	LYS A	413	14.541	19.417	56.795	1.00 30.99
MOTA	3254	CD	LYS A	413	14.126	18.085	56.202	1.00 36.92
ATOM	3255	CE	LYS A	413	13.676	17.091	57.267	1.00 49.02
MOTA	3256	NZ	LYS 1	413	13.031	15.887	56.725	1.00 66.84
ATOM	3257	N	PHE A	414	14.473	22.748	55.835	1.00 16.13
MOTA	3258	CA	PHE A	414	13.293	23.542	56.088	1.00 13.37
ATOM	3259	С		414	13.145	24.807	55.296	1.00 20.62
ATOM	3260	0		414	12.255	25.621	55.547	1.00 19.74
ATOM	3261	CB	PHE A		13.216	23.847	57.589	1.00 13.47
MOTA	3262	CG		414	13.090	22.586	58.414	1.00 17.03
ATOM	3263		PHE A			21.779	58.315	1.00 22.40
ATOM	3264		PHE A		14.097	22.157	59.273	1.00 18.74
ATOM	3265		PHE I		11.790	20.610	59.057	1.00 20.15
ATOM	3266		PHE A		13.945	20.984	60.017	1.00 21.81
ATOM	3267	CZ		414	12.789	20.206	59.935	1.00 19.96
							54.313	1.00 22.61
MOTA	3268	N Ca		415	13.994	24.991 26.203	53.487	1.00 21.65
MOTA	3269	CA		415	13.886			
ATOM	3270	C	SER A		12.483	26.344	52.912	1.00 22.89
ATOM	3271	0		415	11.945	25.399	52.333	1.00 23.73
ATOM	3272	CB	SER A		14.893	26.173	52.347	1.00 22.04
ATOM	3273	OG		415	16.164	26.557	52.810	1.00 25.20
MOTA	3274	N		4 416	11.915	27.517	53.063	1.00 17.87
MOTA	3275	CA		416	10.583	27.849	52.552	1.00 21.68
ATOM	3276	C	TYR A	416	9.454	27.291	53.372	1.00 22.08

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ATOM	3277	0			416	8.306	27.333	52.923	1.00 20.11
ATOM	3278	CB	TYR	A	416	10.325	27.563	51.033	1.00 24.28
ATOM	3279	CG	TYR	Α	416	11.505	27.894	50.178	1.00 24.78
MOTA	3280	CD1	TYR	Α	416	12.358	26.878	49.745	1.00 24.62
MOTA	3281	CD2	TYR	A	416	11.790	29.217	49.839	1.00 24.25
ATOM	3282	CE1	TYR	A	416	13.483	27.163	48.979	1.00 19.21
ATOM	3283	CE2	TYR	Α	416	12.906	29.515	49.059	1.00 25.80
ATOM	3284	CZ			416	13.749	28.484	48.635	1.00 28.59
ATOM	3285	OH			416	14.859	28.745	47.870	1.00 32.88
MOTA	3286	N			417	9.799	26.749	54.541	1.00 15.88
MOTA	3287	CA			417	8.806	26.181	55.428	1.00 14.99
MOTA	3288	C	LYS			8.702	27.001	56.708	1.00 19.80
ATOM	3289	0	LYS			9.552	27.832	56.976	1.00 17.04
			LYS			9.182	24.754	55.774	1.00 17.07
ATOM	3290	CB							
ATOM	3291	CG	LYS			8.902	23.837	54.568	1.00 42.14
MOTA	3292	CD	LYS			9.705	22.537	54.512	1.00 70.23
MOTA	3293	CE	LYS			9.893	22.020	53.080	1.00 98.46
MOTA	3294	NZ	LYS			11.308	21.895	52.655	1.00100.00
MOTA	3295	N	SER	A	418	7.656	26.770	57.483	1.00 18.76
ATOM	3296	CA	SER	A	418	7.453	27.431	58.777	1.00 18.23
ATOM	3297	C	SER	A	418	7.414	26.261	59.746	1.00 19.84
ATOM	3298	0	SER	A	418	6.668	25.314	59.510	1.00 21.54
ATOM	3299	CB	SER	A	418	6.204	28.273	58.786	1.00 19.06
MOTA	3300	OG	SER	Α	418	6.323	29.170	57.698	1.00 21.69
ATOM	3301	N	ILE	Α	419	8.262	26.253	60.778	1.00 15.55
ATOM	3302	CA	ILE	А	419	8.365	25.081	61.648	1.00 15.71
ATOM	3303	C	ILE			8.280	25.384	63.110	1.00 19.68
ATOM	3304	0			419	8.328	26.531	63.526	1.00 17.46
ATOM	3305	СВ			419	9.747	24.424	61.410	1.00 18.62
ATOM	3306	CG1				10.831	25.461	61.722	1.00 19.15
ATOM	3307	CG2	ILE			9.918	24.029	59.951	1.00 17.84
ATOM	3308	CD1			419		24.868	61.646	1.00 20.96
ATOM	3309	N	THR			8.174	24.318	63.898	1.00 16.98
ATOM	3310	CA	THR			8.093	24.498	65.337	1.00 16.43
ATOM	3311	C	THR			9.348	23.960	65.974	1.00 21.83
	3312	0	THR			10.141	23.312	65.300	1.00 18.82
ATOM								65.943	1.00 20.81
MOTA	3313	CB	THR			6.937	23.675	65.888	
ATOM	3314	OG1				7.279	22.307		1.00 17.35 1.00 17.66
ATOM	3315	CG2				5.652	23.905	65.170	
ATOM	3316	N	THR			9.509	24.230	67.279	1.00 15.44
MOTA	3317	CA	THR			10.627	23.719	68.062	1.00 14.71
ATOM	3318	C	THR			10.714	22.185	67.921	1.00 19.15
MOTA	3319	0	THR			11.801	21.642	67.832	1.00 18.94
MOTA	3320	CB	THR			10.389	24.091	69.534	1.00 18.57
ATOM	3321		THR			10.496	25.501	69.612	1.00 16.52
ATOM	3322	CG2				11.377	23.368	70.456	1.00 15.83
MOTA	3323	N	ASP			9.580	21.463	67.890	1.00 15.92
MOTA	3324	CA	ASP	A	422	9.659	19.986	67.722	1.00 14.54
ATOM	3325	C	ASP	Α	422	10.272	19.580	66.359	1.00 21.58
MOTA	3326	0	ASP	Α	422	11.048	18.588	66.225	1.00 20.31
MOTA	3327	CB	ASP	A	422	8.314	19.238	67.909	1.00 14.53
ATOM	3328	CG	ASP	A	422	8.560	17.737	67.831	1.00 19.43
ATOM	3329	OD1	ASP	A	422	9.323	17.129	68.596	1.00 16.06
MOTA	3330		ASP			7.911	17.117	66.852	1.00 21.53
ATOM	3331	N	ASP			9.918	20.353	65.322	1.00 19.09
ATOM	3332	CA	ASP			10.495	20.082	63.995	1.00 17.88
ATOM	3333	c.	ASP			12.013	20.170	64.096	1.00 19.57
ATOM	3334	0	ASP			12.765	19.301	63.637	1.00 19.33
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MOTA	3335	CB			423	9.958	21.045	62.912	1.00 17.74
MOTA	3336	CG			423	8.504	20.825	62.618	1.00 23.90
MOTA	3337	OD1	ASP	Α	423	8.010	19.730	62.614	1.00 31.78
MOTA	3338	OD2	ASP	Α	423	7.820	21.911	62.423	1.00 23.23
MOTA	3339	N	TRP	Α	424	12.459	21.248	64.730	1.00 15.04
ATOM	3340	CA	TRP	A	424	13.889	21.495	64.920	1.00 15.04
ATOM	3341	С	TRP	Α	424	14.584	20.406	65.724	1.00 20.40
ATOM	3342	ō			424	15.596	19.843	65.336	1.00 17.34
ATOM	3343	СВ			424	14.071	22.831	65.642	1.00 17.34
ATOM	3344	CG			424	15.484	23.055	66.071	1.00 16.43
ATOM	3345	CD1			424	16.492	23.579	65.329	1.00 18.57
ATOM	3346	CD2			424	16.018	22.769	67.349	1.00 15.38
MOTA	3347		TRP			17.628	23.617	66.064	1.00 16.29
MOTA	3348	CE2	TRP	A	424	17.370	23.117	67.308	1.00 16.11
ATOM	3349	CE3	TRP	Α	424	15.469	22.258	68.508	1.00 16.08
ATOM	3350	CZ2	TRP	A	424	18.190	22.968	68.407	1.00 15.49
MOTA	3351	CZ3	TRP	A	424	16.279	22.113	69.613	1.00 17.94
ATOM	3352	CH2	TRP	A	424	17.627	22.474	69.563	1.00 18.84
MOTA	3353	N			425	14.020	20.075	66.877	1.00 16.42
ATOM	3354	CA			425	14.614	19.058	67.725	1.00 16.03
ATOM	3355	C			425	14.518	17.671	67.082	1.00 19.39
ATOM	3356	o			425	15.424	16.840	67.224	1.00 15.23
ATOM	3357	CB			425	13.933	19.094	69.083	1.00 19.23
ATOM	3358	CG			425	14.671	18.368	70.197	1.00 20.25
ATOM	3359	CD			425	13.968	18.523	71.536	1.00 18.98
ATOM	3360	CE			425	13.745	17.195	72.227	1.00 26.47
MOTA	3361	NZ			425	12.642	16.425	71.626	1.00 29.32
ATOM	3362	N	ASP	A	426	13.393	17.399	66.391	1.00 14.97
ATOM	3363	CA	ASP	Α	426	13.265	16.085	65.778	1.00 16.78
MOTA	3364	C	ASP	Α	426	14.386	15.932	64.720	1.00 24.04
MOTA	3365	0	ASP	Α	426	15.006	14.882	64.587	1.00 24.93
ATOM	3366	CB	ASP	Α	426	11.825	15.858	65.192	1.00 16.86
MOTA	3367	CG	ASP	A	426	10.763	15.617	66.260	1.00 20.58
ATOM	3368	OD1	ASP	A	426	10.993	15.457	67.440	1.00 19.54
ATOM	3369	OD2	ASP	Α	426	9.527	15.680	65.838	1.00 16.03
ATOM	3370	N			427	14.649	17.012	63.971	1.00 17.98
ATOM	3371	CA			427	15.683	16.995	62.927	1.00 18.47
ATOM	3372	C			427	17.098	16.855	63.516	1.00 21.82
ATOM	3373	0			427	17.966	16.117	63.064	1.00 20.65
MOTA	3374	СВ			427	15.567	18.226	62.012	1.00 17.69
ATOM	3375	CG			427	16.598	18.171	60.945	1.00 17.03
MOTA	3376		PHE			16.536	17.192	59.953	1.00 22.20
MOTA	3377		PHE			17.673	19.058	60.951	1.00 20.78
MOTA	3378		PHE			17.514	17.125	58.957	1.00 22.24
ATOM	3379		PHE			18.659	19.007		1.00 23.56
MOTA	3380	CZ			427	18.575	18.032	58.967	1.00 20.58
MOTA	3381	N			428	17.323	17.575	64.567	1.00 16.49
ATOM	3382	CA	LEU	A	428	18.582	17.512	65.258	1.00 17.57
MOTA	3383	C	LEU	Α	428	18.888	16.044	65.591	1.00 21.61
MOTA	3384	0	LEU	A	428	19.995	15.562	65.387	1.00 22.21
MOTA	3385	СB	LEU	Α	428	18.467	18.372	66.573	1.00 18.03
ATOM	3386	CG			428	19.727	18.463	67.424	1.00 22.98
ATOM	3387		LEU			20.718	19.469	66.840	1.00 23.48
ATOM	3388		LEU			19.347	18.859	68.843	1.00 19.42
ATOM	3389	N			429	17.888	15.317	66.124	1.00 17.99
ATOM	3390	CA			429	18.108		66.468	1.00 17.93
		CA					13.928		
ATOM	3391				429	18.317	13.083	65.234	1.00 20.04
MOTA	3392	0	TIK	н	429	19.028	12.089	65.222	1.00 21.75

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ATOM	3393	CB			429	16.930	13.365	67.228	1.00 16.70
MOTA	3394	CG			429	17.129	13.527	68.694	1.00 19.75
MOTA	3395	CD1	TYR	A	429	16.871	14.745	69.339	1.00 22.56
MOTA	3396	CD2	TYR	Α	429	17.551	12.436	69.450	1.00 19.39
MOTA	3397	CE1	TYR	Α	429	17.013	14.880	70.723	1.00 20.62
ATOM	3398	CB2	TYR	Α	429	17.719	12.555	70.827	1.00 19.33
ATOM	3399	CZ			429	17.447	13.772	71.460	1.00 28.34
ATOM	3400	OH			429	17.605	13.861	72.827	1.00 21.99
MOTA	3401	N			430	17.680	13.480	64.186	1.00 21.12
	3402	CA			430		12.754	62.966	1.00 22.17
MOTA						17.814			
ATOM	3403	C			430	19.202	12.960	62.417	1.00 27.73
MOTA	3404	0			430	19.905	12.020	62.037	1.00 29.03
MOTA	3405	CB			430	16.798	13.249	61.972	1.00 25.53
MOTA	3406	OG			430	16.768	12.307	60.941	1.00 38.11
ATOM	3407	N	TYR	A	431	19.606	14.213	62.366	1.00 20.64
MOTA	3408	CA	TYR	Α	431	20.940	14.525	61.861	1.00 18.79
MOTA	3409	C	TYR	A	431	22.067	13.832	62.650	1.00 28.08
ATOM	3410	0	TYR	A	431	22.985	13.217	62.090	1.00 27.29
MOTA	3411	CB	TYR	A	431	21.155	16.047	61.853	1.00 18.96
MOTA	3412	CG	TYR	Α	431	22.451	16.469	61.216	1.00 21.07
ATOM	3413	CD1			431	22.515	16.652	59.834	1.00 22.11
ATOM	3414	CD2			431	23.591	16.703	61.991	1.00 21.91
ATOM	3415	CE1			431	23.710	17.020	59.217	1.00 21.48
MOTA	3416	CE2			431	24.794	17.077	61.391	1.00 20.59
MOTA	3417	CZ			431	24.845	17.237	60.002	1.00 26.37
MOTA	3418	ОН			431	26.023	17.606	59.384	1.00 25.96
ATOM	3419	N			432	22.000	13.968	63.976	1.00 20.75
ATOM	3420	CA	PHE	A	432	22.978	13.412	64.899	1.00 21.17
ATOM	3421	С	PHE	Α	432	22.574	12.027	65.391	1.00 29.42
MOTA	3422	0	PHE	Α	432	22.628	11.709	66.609	1.00 27.60
MOTA	3423	CB	PHE	Α	432	23.221	14.370	66.082	1.00 21.99
MOTA	3424	CG	PHE	A	432	23.937	15.632	65.661	1.00 22.27
MOTA	3425	CD1	PHE	Α	432	25.310	15.611	65.413	1.00 23.51
ATOM	3426	CD2	PHE	A	432	23.267	16.844	65.511	1.00 25.91
MOTA	3427	CE1	PHE	Α	432	26.017	16.751	65.038	1.00 23.71
MOTA	3428	CE2	PHE	Α	432	23.964	17.997	65.137	1.00 28.53
ATOM	3429	CZ	PHE	А	432	25.337	17.958	64.903	1.00 24.21
MOTA	3430	N	LYS	Α	433	22.176	11.202	64.418	1.00 29.48
ATOM	3431	CA	LYS			21.750	9.871	64.741	1.00 31.50
ATOM	3432	C			433	22.772	9.105	65.542	1.00 38.53
ATOM	3433	ō	LYS			22.434	8.352	66.461	1.00 40.17
ATOM	3434	CB	LYS			21.217	9.082	63.568	1.00 33.47
ATOM	3435	CG	LYS			22.089	9.099	62.332	1.00 49.54
ATOM	3436		LYS			21.366		61.155	1.00 49.54
		CD					8.440		
ATOM	3437	CE	LYS			22.280	7.745	60.138	1.00100.00
ATOM	3438	NZ	LYS			23.098	6.630	60.676	1.00100.00
MOTA	3439	N	ASP			24.026	9.336	65.208	1.00 35.45
MOTA	3440	CA			434	25.124	8.653	65.881	1.00 37.23
MOTA	3441	С	ASP			25.525	9.192	67.245	1.00 38.69
ATOM	3442	0	ASP			26.416	8.654	67.902	1.00 39.17
MOTA	3443	CB	ASP	A	434	26.314	8.470	64.928	1.00 41.50
ATOM	3444	CG	ASP	A	434	25.890	7.728	63.692	1.00 67.13
ATOM	3445	OD1	ASP	A	434	25.175	6.717	63.728	1.00 67.36
MOTA	3446	OD2	ASP	A	434	26.315	8.303	62.586	1.00 84.58
MOTA	3447	N	LYS			24.853	10.245	67.689	1.00 32.08
ATOM	3448	CA	LYS			25.162	10.821	68.969	1.00 29.32
ATOM	3449	C	LYS			23.929	10.964	69.810	1.00 29.59
ATOM	3450	0	LYS			23.900	11.671	70.787	1.00 32.10
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ATOM	3451	CB			435	25.898	12.127	68.804	1.00 33.40
ATOM	3452	CG			435	27.071	12.016	67.829	1.00 32.88
ATOM	3453	CD	LYS	A	435	27.667	13.366	67.474	1.00 38.14
ATOM	3454	CE	LYS	Α	435	29.124	13.505	67.880	1.00 48.06
ATOM	3455	NZ	LYS	Α	435	29.892	14.457	67.044	1.00 38.96
MOTA ·	3456	N	VAL	A	436	22.890	10.278	69.418	1.00 26.88
MOTA	3457	CA	VAL	Α	436	21.645	10.309	70.163	1.00 29.00
MOTA	3458	С			436	21.929	10.232	71.659	1.00 34.17
ATOM	3459	ō			436	21.263	10.835	72.511	1.00 32.94
ATOM	3460	СВ			436	20.773	9.138	69.695	1.00 35.31
ATOM	3461		VAL			19.623	8.885	70.644	1.00 34.86
	3462								
MOTA		CG2			436	20.210	9.448	68.314	1.00 35.95
ATOM	3463	N			437	22.955	9.464	71.974	1.00 33.59
ATOM	3464	CA			437	23.360	9.292	73.340	1.00 37.03
MOTA	3465	C			437	23.794	10.594	73.986	1.00 39.40
ATOM	3466	0	ASP	Α	437	23.501	10.851	75.162	1.00 39.71
ATOM	3467	CB	ASP	Α	437	24.406	8.189	73.488	1.00 40.58
MOTA	3468	CG	ASP	Α	437	23.712	6.868	73.551	1.00 70.66
ATOM	3469	OD1	ASP	Α	437	22.493	6.763	73.671	1.00 70.63
ATOM	3470	OD2	ASP	Α	437	24.546	5.856	73.445	1.00 91.48
ATOM	3471	N	VAL	Α	438	24.495	11.400	73.200	1.00 33.72
ATOM	3472	CA	VAL	Α	438	24.945	12.698	73.657	1.00 34.65
ATOM	3473	C			438	23.735	13.621	73.735	1.00 33.57
ATOM	3474	ō			438	23.536	14.325	74.704	1.00 34.91
ATOM	3475	CB			438	26.034	13.287	72.758	1.00 37.55
ATOM	3476	CG1			438	26.503	14.626	73.299	1.00 34.71
ATOM	3477	CG2			438	27.208	12.318	72.709	1.00 34.71
ATOM		N			439				
	3478	CA			439	22.903	13.588	72.712	1.00 24.40
ATOM	3479					21.721	14.414	72.719	1.00 22.32
ATOM	3480	C			439	20.834	14.099	73.924	1.00 26.48
ATOM	3481	0			439	20.191	14.942	74.529	1.00 22.38
ATOM	3482	CB			439	20.933	14.276	71.421	1.00 20.57
ATOM	3483	CG			439	21.576	14.997	70.230	1.00 23.44
MOTA	3484		LEU			20.906	14.546	68.949	1.00 21.22
ATOM	3485	CD2	LEU			21.448	16.504	70.377	1.00 26.40
MOTA	3486	И			440	20.812	12.857	74.328	1.00 28.97
MOTA	3487	CA	ASN			19.989	12.526	75.468	1.00 30.65
MOTA	3488	С			440	20.485	13.059	76.815	1.00 36.08
MOTA	3489	0	ASN	Α	440	19.797	12.963	77.840	1.00 35.25
MOTA	3490	CB	asn	A	440	19.572	11.051	75.500	1.00 32.98
MOTA	3491	CG	asn	Α	440	18.715	10.673	74.297	1.00 44.08
MOTA	3492	OD1	asn	A	440	18.880	9.598	73.713	1.00 45.17
MOTA	3493	ND2	ASN	Α	440	17.787	11.540	73.932	1.00 28.22
MOTA	3494	N	GLN	A	441	21.671	13.638	76.817	1.00 31.53
ATOM	3495	CA			441	22.229	14.187	78.039	1.00 31.77
ATOM	3496	C	GLN	A	441	21.697	15.567	78.287	1.00 29.73
ATOM	3497	0			441	21.898	16.161	79.338	1.00 29.53
ATOM	3498	СВ			441	23.761	14.354	77.925	1.00 34.83
ATOM	3499	CG			441	24.547	13.034	77.744	1.00 58.52
ATOM	3500	CD	GLN			25.923	13.263	77.141	1.00 89.10
ATOM	3501		GLN			26.427		77.102	1.00 88.57
							14.407		
ATOM	3502		GLN			26.520	12.176	76.643	1.00 77.72
ATOM	3503	N	VAL			21.060	16.102	77.281	1.00 24.12
ATOM	3504	CA	VAL			20.559	17.455	77.403	1.00 21.42
MOTA	3505	C	VAL			19.291	17.500	78.203	1.00 24.42
ATOM	3506	0	VAL			18.413	16.685	77.985	1.00 24.57
MOTA	3507	CB	VAL			20.290	18.001	76.008	1.00 24.29
ATOM	3508	CG1	VAL	A	442	19.812	19.440	76.055	1.00 20.29

ATOM	3509		VAL			21.533	17.877	75.146		24.17
MOTA	3510	N	ASP			19.182	18.455	79.117		20.38
ATOM	3511	CA	ASP	Α	443	17.949	18.592	79.885	1.00	18.65
MOTA	3512	C	ASP	Α	443	17.033	19.466	79.007	1.00	20.56
MOTA	3513	0	ASP	A	443	16.908	20.685	79.188	1.00	19.27
ATOM	3514	CB	ASP	Α	443	18.268	19.278	81.234	1.00	17.23
ATOM	3515	CG	ASP	Α	443	17.107	19.409	82.156	1.00	22.28
MOTA	3516		ASP			15.962	19.193	81.821	1.00	25.25
ATOM	3517		ASP			17.469	19.832	83.350		29.16
ATOM	3518	N	TRP			16.444	18.841	77.991		18.68
MOTA	3519	CA	TRP			15.589	19.555	77.044		19.23
	3520	C	TRP			14.447	20.283	77.739		22.43
ATOM			TRP					77.755		20.87
MOTA	3521	0				14.106	21.378			
MOTA	3522	CB	TRP			15.014	18.571	75.999		16.26
ATOM	3523	CG	TRP			16.075	18.037	75.111		17.37
ATOM	3524	CD1	TRP			16.577	16.760	75.075		20.43
MOTA	3525	CD2	TRP	A	444	16.766	18.764	74.121		17.48
ATOM	3526	NE1	TRP	A	444	17.571	16.654	74.130	1.00	16.65
ATOM	3527	CE2	TRP	Α	444	17.691	17.869	73.509	1.00	18.92
ATOM	3528	CE3	TRP	Α	444	16.684	20.086	73.666	1.00	19.00
ATOM	3529	CZ2	TRP	Α	444	18.513	18.295	72.461	1.00	19.33
ATOM	3530	CZ3	TRP	Α	444	17.515	20.495	72.617	1.00	19.57
ATOM	3531	CH2	TRP	Α	444	18.434	19.619	72.044	1.00	19.75
ATOM	3532	N	ASN	Α	445	13.826	19.632	78.740	1.00	20.30
MOTA	3533	CA	ASN	A	445	12.706	20.224	79.463	1.00	20.89
ATOM	3534	С	ASN			13.077	21.554	80.087	1.00	20.91
MOTA	3535	ō	ASN			12.322	22.527	80.040	1.00	21.65
ATOM	3536	СВ	ASN			12.137	19.320	80.595		21.46
MOTA	3537	CG	ASN			11.115	20.025	81.495		39.63
ATOM	3538		ASN			11.392	20.355	82.657		39.64
ATOM	3539		ASN			9.925	20.274	80.974		29.20
ATOM	3540	N	ALA			14.222	21.569	80.734		18.04
		CA	ALA			14.639	22.777	81.382		17.64
MOTA	3541							80.348		21.98
ATOM	3542	C	ALA			14.981	23.810 24.966	80.400		22.74
ATOM	3543	0	ALA			14.533				
ATOM	3544	CB	ALA			15.792	22.515	82.324		18.03
MOTA	3545	N	TRP			15.760	23.390	79.386		14.45 15.22
ATOM	3546	CA	TRP			16.152	24.344	78.368	_	
MOTA	3547	C	TRP			14.989	24.963	77.589		17.91
MOTA	3548	0	TRP			15.015	26.157	77.286		16.55
MOTA	3549	CB	TRP			17.136	23.694	77.357		16.85
MOTA	3550	CG	TRP			18.610	23.756	77.719		20.22
ATOM	3551		TRP			19.347	22.716	78.224		23.53
MOTA	3552		TRP			19.517	24.876	77.572		17.48
MOTA	3553		TRP			20.643	23.112	78.408		22.35
MOTA	3554	CE2	TRP			20.776	24.433	78.020		21.97
ATOM	3555	CE3				19.393	26.190	77.109		17.98
MOTA	3556	CZ2	TRP	Α	447	21.892	25.264	77.984	1.00	19.50
ATOM	3557	CZ3	TRP	A	447	20.502	26.998	77.062	1.00	17.61
MOTA	3558	CH2	TRP	A	447	21.734	26.539	77.508	1.00	17.94
ATOM	3559	N	LEU	A	448	13.985	24.122	77.207	1.00	16.70
MOTA	3560	CA	LEU	A	448	12.879	24.608	76.386	1.00	15.95
MOTA	3561	С	LEU	A	448	11.711	25.243	77.135	1.00	19.25
ATOM	3562	0	LEU			11.113	26.215	76.644		17.43
ATOM	3563	СВ	LEU			12.305	23.439	75.523		12.19
ATOM	3564	CG	LEU			13.354	22.710	74.695		16.16
ATOM	3565		LEU			12.716	21.570	73.895		17.37
ATOM	3566		LEU			13.969	23.679	73.703		16.41
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MOTA	3567	N			449	11.365	24.630	78.287	1.00 14.33
MOTA	3568	CA			449	10.196	25.053	79.029	1.00 14.18
MOTA	3569	C	TYR	A	449	10.411	25.677	80.383	1.00 24.16
MOTA	3570	0	TYR	A	449	9.453	26.169	80.973	1.00 31.60
MOTA	3571	CB	TYR	Α	449	9.242	23.846	79.133	1.00 14.78
ATOM	3572	CG	TYR	Α	449	9.181	23.150	77.809	1.00 18.85
ATOM	3573	CD1	TYR	Α	449	8.803	23.864	76.673	1.00 22.43
ATOM	3574	CD2			449	9.544	21.811	77.678	1.00 21.55
ATOM	3575	CE1			449	8.780	23.284	75.406	1.00 23.44
		CE2			449				1.00 24.76
ATOM	3576					9.524	21.204	76.421	
ATOM	3577	CZ			449	9.139	21.940	75.297	1.00 30.93
MOTA	3578	OH			449	9.104	21.340	74.074	1.00 32.94
MOTA	3579	N			450	11.632	25.666	80.922	1.00 20.74
MOTA	3580	CA	SER	Α	450	11.805	26.273	82.232	1.00 19.22
MOTA	3581	C	SER	Α	450	12.173	27.745	82.136	1.00 19.24
MOTA	3582	0	SER	Α	450	12.873	28.169	81.232	1.00 16.93
ATOM	3583	CB	SER	Α	450	12.788	25.513	83.115	1.00 18.75
ATOM	3584	OG	SER	Α	450	12.355	24.182	83.271	1.00 19.76
ATOM	3585	N	PRO	Α	451	11.708	28.532	83.090	1.00 18.00
MOTA	3586	CA			451	12.037	29.932	83.102	1.00 14.60
ATOM	3587	C			451	13.417	30.093	83.732	1.00 19.79
ATOM	3588	ō			451	13.984	29.124	84.228	1.00 19.56
ATOM	3589	CB			451	11.037	30.565	84.057	1.00 15.55
					451				
ATOM	3590	CG				10.705	29.459	85.055	1.00 21.58
ATOM	3591	CD			451	11.020	28.141	84.342	1.00 21.20
MOTA	3592	Ŋ			452	13.928	31.341	83.724	1.00 17.89
MOTA	3593	CA			452	15.202	31.665	84.338	1.00 18.57
MOTA	3594	С	$G\Gamma X$			16.407	31.317	83.478	1.00 21.97
MOTA	3595	0	GLY	A	452	16.290	31.071	82.276	1.00 21.83
MOTA	3596	N			453	17.589	31.317	84.107	1.00 19.93
ATOM	3597	CA	LEU	A	453	18.837	30.982	83.415	1.00 18.02
ATOM	3598	C	LEU	Α	453	18.793	29.544	82.986	1.00 16.18
MOTA	3599	0	LEU	Α	453	18.144	28.738	83.626	1.00 17.78
ATOM	3600	CB	LEU	A	453	20.094	31.244	84.292	1.00 17.95
ATOM	3601	CG	LEU	Α	453	20.310	32.752	84.572	1.00 23.56
MOTA	3602	CD1	LEU	A	453	21.420	32.994	85.574	1.00 22.35
ATOM	3603	CD2	LEU	A	453	20.625	33.534	83.300	1.00 30.45
MOTA	3604	N	PRO	Α	454	19.484	29.235	81.905	1.00 13.25
ATOM	3605	CA	PRO	Α	454	19.535	27.899	81.411	1.00 15.46
ATOM	3606	C	PRO			20.119	27.024	82.485	1.00 23.30
ATOM	3607	ō			454	20.815	27.513	83.353	1.00 23.78
ATOM	3608	CB	PRO			20.495	27.948	80.237	1.00 17.39
ATOM	3609	CG	PRO			20.556	29.378	79.823	1.00 17.33
	3610	CD	PRO				30.206	80.977	
ATOM						20.075			1.00 13.32
ATOM	3611	N			455	19.829	25.723	82.410	1.00 21.53
MOTA	3612	CA	PRO			20.272	24.743	83.370	1.00 19.23
ATOM	3613	C	PRO			21.770	24.549	83.389	1.00 25.57
ATOM	3614	0	PRO			22.296	23.986	84.337	1.00 27.35
MOTA	3615	CB	PRO			19.652	23.427	82.900	1.00 22.39
MOTA	3616	CG	PRO	Α	455	19.374	23.599	81.408	1.00 26.96
MOTA	3617	CD	PRO	A	455	19.350	25.092	81.148	1.00 22.06
MOTA	3618	N	ILE	A	456	22.447	24.964	82.326	1.00 23.73
ATOM	3619	CA	ILE	A	456	23.899	24.830	82.174	1.00 23.23
MOTA	3620	С	ILE	A	456	24.529	25.986	81.356	1.00 27.18
ATOM	3621	0	ILE	Α	456	23.978	26.449	80.360	1.00 24.63
ATOM	3622	СВ	ILB			24.307	23.478	81.556	1.00 25.34
ATOM	3623		ILE			25.823	23.393	81.561	1.00 27.12
ATOM	3624		ILE			23.869	23.383	80.104	1.00 22.88
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ATOM	3625	CD1	ILE	A	456	26.315	22.032	81.111	1.00 37.60
ATOM	3626	N	LYS	A	457	25.703	26.440	81.796	1.00 23.16
ATOM	3627	CA	LYS	A	457	26.410	27.503	81.125	1.00 19.98
ATOM	3628	C	LYS	A	457	27.497	26.952	80.216	1.00 19.32
ATOM	3629	0	LYS	A	457	28.321	26.142	80.606	1.00 20.28
MOTA	3630	CB			457	27.017	28.412	82.169	1.00 18.35
ATOM	3631	CG			457	27.630	29.654	81.540	1.00 19.13
ATOM	3632	CD			457	28.040	30.704	82.573	1.00 13.39
ATOM	3633	CE			457	28.595	31.975	81.976	1.00 19.02
ATOM	3634	NZ			457	29.079	32.871	83.038	1.00 25.41
ATOM	3635	N			458	27.510	27.368	78.980	1.00 17.25
ATOM	3636	CA			458	28.561	26.873	78.092	1.00 16.78
ATOM	3637	C			458	29.948	27.342	78.587	1.00 21.03
ATOM	3638	ō			458	30.098	28.121	79.548	1.00 18.45
ATOM	3639	CB			458	28.291	27.537	76.706	1.00 15.89
ATOM	3640	CG			458	26.889	28.090	76.751	1.00 18.86
MOTA	3641	CD			458	26.514	28.209	78.240	1.00 15.44
ATOM	3642	N			459	30.975	26.874	77.892	1.00 19.04
	3643	CA			459	32.363	27.253	78.179	1.00 17.72
ATOM		CA			459		28.426	77.277	1.00 17.72
ATOM	3644				459	32.713			
ATOM	3645	0				32.358	28.395	76.110 77.766	1.00 21.77
MOTA	3646	CB			459	33.283	26.119		1.00 16.35
MOTA	3647	CG			459	32.986	24.915	78.600	1.00 33.77
ATOM	3648		ASN			32.711	25.054	79.801 77.971	1.00 35.74
ATOM	3649		ASN			32.997	23.744		1.00 18.66
ATOM	3650	N			460	33.391	29.456	77.813 77.038	1.00 18.30
ATOM	3651	CA			460	33.753	30.635		1.00 20.75
ATOM	3652	C			460	35.213	31.026	77.185	1.00 20.75
MOTA	3653	0			460	35.741	31.119	78.307	
ATOM	3654	CB			460	32.976	31.904	77.478	
MOTA	3655	CG			460	31.478	31.810	77.386	1.00 17.73 1.00 20.44
MOTA	3656		TYR			30.749	31.188	78.396 76.292	1.00 20.44
MOTA	3657		TYR			30.794	32.337	78.337	1.00 18.25
ATOM	3658		TYR			29.360	31.101	76.198	1.00 23.40
MOTA	3659		TYR			29.404	32.232	77.231	1.00 14.33
ATOM	3660	CZ OH			460 460	28.690 27.326	31.628 31.523	77.162	1.00 16.31
ATOM	3661		ASP			35.842	31.343	76.046	1.00 19.66
MOTA	3662	N	ASP				31.809	76.095	1.00 18.27
ATOM ATOM	3663	CA C	ASP			37.212 37.169	33.141	76.798	1.00 18.27
	3664				461	36.188	33.860	76.643	1.00 18.13
MOTA	3665	O CB	ASP				31.934	74.697	1.00 23.01
ATOM	3666 3667	CG	ASP			37.798 39.212	32.406	74.742	1.00 23.01
ATOM ATOM	3668		ASP			40.164	31.685	74.960	1.00 40.43
	3669		ASP			39.294	33.681	74.538	1.00 40.43
MOTA	3670	N	MET			38.198	33.454	77.576	1.00 22:42
MOTA		CA	MET			38.210	34.688	78.349	1.00 15.66
ATOM	3671 3672	C	MET				35.777	77.882	1.00 17.32
ATOM		0	MET			39.165 39.239	36.842	78.495	1.00 17.32
ATOM	3673		MET				34.363	79.806	1.00 15.35
ATOM	3674	CB	MET			38.536 37.478			1.00 10.30
ATOM	3675 3676	CG					33.480	80.420 80.563	1.00 21.50
ATOM	3676	SD	MET MET			35.876	34.326	81.816	1.00 24.64
MOTA	3677	CE				36.280	35.573		1.00 20.50
ATOM	3678	N			463	39.914	35.489	76.836	
ATOM	3679	CA			463	40.904	36.405	76.288	1.00 16.87
MOTA	3680	C	THR			40.541	37.879	76.325	1.00 23.58
MOTA	3681	O CB	THR			41.232	38.658	76.992	1.00 25.77
ATOM	3682	CB	THR	A	403	41.430	35.983	74.904	1.00 24.32

MOTA	3683	OG1	THR	A	463	41.785	34.618	74.927	1.00 20.4	8
ATOM	3684	CG2	THR	A	463	42.653	36.821	74.545	1.00 19.1	3
ATOM	3685	N	LEU	Α	464	39.500	38.305	75.582	1.00 17.7	8
MOTA	3686	CA	LEU	A	464	39.123	39.732	75.548	1.00 19.0	2
MOTA	3687	C	LEU	A	464	38.314	40.259	76.751	1.00 18.7	7
ATOM	3688	0	LEU	Α	464	38.250	41.450	77.001	1.00 21.3	0
ATOM	3689	CB	LEU			38.360	40.033	74.245	1.00 20.6	
ATOM	3690	CG	LEU			39.213	39.688	73.006	1.00 27.6	
ATOM	3691		LEU			38.360	39.792	71.728	1.00 29.6	
ATOM	3692		LEU			40.427	40.619	72.898	1.00 21.7	
ATOM	3693	N	THR			37.674	39.353	77.479	1.00 15.9	
ATOM	3694	CA	THR			36.843	39.694	78.609	1.00 14.6	
MOTA	3695	C	THR			37.619	40.024	79.854	1.00 17.8	
ATOM	3696	0	THR			37.211	40.865	80.646	1.00 16.8	
MOTA	3697	СВ	THR			35.871	38.550	78.901	1.00 10.0	
ATOM	3698		THR			35.073	38.342	77.759	1.00 21.6	
			THR							
MOTA	3699	CG2				34.956	38.944	80.041	1.00 25.4	
ATOM	3700	N	ASN			38.721	39.324	80.043	1.00 16.4	
ATOM	3701	CA	ASN			39.540	39.527	81.213	1.00 16.1	
ATOM	3702	C	ASN			39.836	40.996	81.525	1.00 19.3	
MOTA	3703	0	ASN			39.734	41.439	82.663	1.00 19.5	
MOTA	3704	CB	ASN			40.849	38.731	81.111	1.00 14.6	
MOTA	3705	CG	ASN			40.657	37.270	81.423	1.00 26.7	
MOTA	3706		ASN			41.408	36.403	80.963	1.00 25.0	
ATOM	3707		ASN			39.660	36.987	82.248	1.00 19.2	
ATOM	3708	N	ALA			40.235	41.789	80.553	1.00 15.8	
MOTA	3709	CA	ALA			40.531	43.172	80.894	1.00 13.5	
MOTA	3710	С	ALA			39.287	43.952	81.326	1.00 20.8	
ATOM	3711	0	ALA			39.354	44.894	82.135	1.00 20.4	
ATOM	3712	CB	ALA			41.227	43.871	79.761	1.00 13.9	
MOTA	3713	N	CYS			38.120	43.554	80.791	1.00 19.0	
ATOM	3714	CA	CYS			36.901	44.243	81.149	1.00 17.2	
ATOM	3715	C	CYS			36.537	43.974	82.585	1.00 17.0	
ATOM	3716	0	CYS			36.056	44.844	83.325	1.00 17.7	
MOTA	3717	CB	CYS			35.774	43.798	80.232	1.00 17.1	
ATOM	3718	SG	CYS			36.190	44.017	78.497	1.00 20.6	
MOTA	3719	И			469	36.760	42.727	82.956	1.00 14.2	
MOTA	3720	CA	ILE			36.466	42.270	84.287	1.00 13.1	
ATOM	3721	С	ILE			37.332	42.942	85.315	1.00 17.1	
ATOM	3722	0	ILE	A	469	36.873	43.371	86.379	1.00 16.2	23
ATOM	3723	CB			469	36.609	40.788	84.347	1.00 16.7	
ATOM	3724		ILE			35.407	40.190	83.624	1.00 19.4	
ATOM	3725		ILE			36.602	40.402	85.802	1.00 18.4	
ATOM	3726	CD1	ILE			35.497	38.673	83.482	1.00 37.7	
ATOM	3727	N	ALA			38.602	43.030	84.986	1.00 15.9	95
ATOM	3728	CA	ALA	Α	470	39.554	43.656	85.860	1.00 14.7	7
ATOM	3729	C	ALA	A	470	39.163	45.097	86.132	1.00 16.3	١6
MOTA	3730	0	ALA	A	470	39.143	45.580	87.293	1.00 15.7	72
MOTA	3731	CB	ALA	A	470	40.934	43.613	85.238	1.00 16.1	.8
MOTA	3732	N	LEU	A	471	38.868	45.811	85.041	1.00 16.5	8
MOTA	3733	CA	LEU	A	471	38.508	47.215	85.175	1.00 13.6	53
MOTA	3734	C	TEA	A	471	37.179	47.407	85.893	1.00 18.6	59
ATOM	3735	0	LEU	A	471	37.055	48.221	86.830	1.00 16.6	8
ATOM	3736	СВ	LEU	A	471	38.599	47.968	83.850	1.00 12.9	3
MOTA	3737	CG	LEU			38.562	49.488	84.041	1.00 21.8	
ATOM	3738		LEU			39.706	49.988	84.941	1.00 20.3	
MOTA	3739		LEU			38.652	50.148	82.647	1.00 24.7	
ATOM	3740	N	SER			36.164	46.647	85.484	1.00 15.9	
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MOTA	3741	CA	SER	A	472	34.893	46.789	86.172	1.00 16.97
MOTA	3742	C	SER	A	472	34.991	46.475	87.679	1.00 18.47
MOTA	3743	0	SER	A	472	34.406	47.153	88.555	1.00 19.09
MOTA	3744	СВ	SER	Α	472	33.774	45.995	85.503	1.00 17.40
ATOM	3745	OG	SER	A	472	34.008	44.617	85.597	1.00 23.16
ATOM	3746	N	GLN			35.717	45.423	87.996	1.00 12.19
ATOM	3747	CA	GLN			35.819	45.089	89.379	1.00 12.48
MOTA	3748	C			473	36.518	46.171	90.135	1.00 15.41
MOTA	3749	ō			473	36.151	46.482	91.277	1.00 15.83
ATOM	3750	СВ			473	36.536	43.762	89.601	1.00 15.35
ATOM	3751	CG	GLN			35.633	42.544	89.397	1.00 28.01
ATOM	3752	CD	GLN			34.591	42.414	90.486	1.00 23.21
ATOM	3753		GLN			34.943	42.280	91.646	1.00 30.81
ATOM	3754	NE2	GLN			33.317	42.443	90.118	1.00 20.42
ATOM	3755	N			474	37.526	46.773	89.500	1.00 15.24
ATOM	3756	CA	ARG			38.237	47.862	90.194	1.00 16.28
ATOM	3757	C.	ARG			37.329	49.021	90.504	1.00 20.39
	3758	0	ARG			37.435	49.652	91.553	1.00 20.33
MOTA MOTA		СВ			474	39.423	48.395	89.439	1.00 17.27
ATOM	3759	CG	ARG			40.550	47.374	89.293	1.00 26.58
ATOM	3760 3761	CD			474	41.618	47.883	88.341	1.00 20.51
	3762				474	41.969	49.292	88.607	1.00 23.54
MOTA	3763	NE			474	42.633	50.045	87.715	1.00 25.34
ATOM		CZ				42.033	49.538	86.533	1.00 35.01
MOTA	3764		ARG					88.008	1.00 20.34
MOTA	3765	NH2	ARG			42.952	51.314		1.00 20.34
ATOM	3766	N			475	36.431 35.546	49.339 50.423	89.585 89.885	1.00 13.73
ATOM	3767	CA			475			90.904	1.00 14.04
MOTA	3768	C	TRP			34.480 34.182	50.022 50.738	91.845	1.00 21.95
MOTA	3769	O CB	TRP		475	34.102	50.738	88.643	1.00 20.00
MOTA	3770	CG			475	35.781	51.876	87.925	1.00 14.34
MOTA MOTA	3771 3772	CD1				36.579	51.601	86.855	1.00 10.00
ATOM	3773		TRP			35.932	53.280	88.198	1.00 15.30
ATOM	3774		TRP			37.226	52.747	86.432	1.00 19.52
MOTA	3775	CE2	TRP			36.856	53.797	87.250	1.00 20.19
MOTA	3776	CE3	TRP			35.396	54.132	89.154	1.00 17.53
MOTA	3777		TRP			37.225	55.156	87.232	1.00 18.93
ATOM	3778		TRP			35.782	55.462	89.148	1.00 19.08
ATOM	3779	CH2	TRP			36.681	55.963	88.196	1.00 18.43
ATOM	3780	N			476	33.889	48.860	90.723	1.00 17.01
ATOM	3781	CA			476	32.863	48.392	91.626	1.00 15.67
MOTA	3782	C			476	33.337	48.303	93.073	1.00 22.88
ATOM	3783	0	ILE			32.560		93.997	
MOTA	3784	СВ			476	32.381	47.041	91.149	1.00 18.98
ATOM	3785		ILE			31.745	47.155	89.782	1.00 17.00
ATOM	3786		ILE			31.515	46.303	92.172	1.00 21.59
MOTA	3787		ILE			31.593	45.758	89.182	1.00 22.51
	3788	N			477	34.607	47.988	93.292	1.00 20.07
ATOM ATOM	3789	CA			477	35.098	47.868	94.662	1.00 20.33
						35.996	49.039	95.113	1.00 23.48
ATOM	3790 3791	0			477 477	36.579	49.045	96.212	1.00 23.48
ATOM	3791				477		49.045	94.760	1.00 26.57
ATOM	3792	CB				35.903		93.950	1.00 28.57
MOTA	3793		THR			37.068	46.687	94.257	1.00 23.03
ATOM	3794		THR			35.062	45.398	94.257	1.00 22.91
ATOM	3795 3796	N N			478	36.132	50.070 51.208	94.577	1.00 20.12
ATOM	3796 3797	CA C			478	37.000	51.208 <b>51</b> .925	95.852	1.00 23.32
ATOM	3797				478	36.640		96.215	
MOTA	3798	0	мця	A	478	35.485	52.053	20.415	1.00 24.79

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ATOM	3799	CB	ALA			36.947	52.231	93.452	1.00 16.80
MOTA	3800	N	LYS			37.643	52.453	96.506	1.00 20.79
MOTA	3801	CA	LYS			37.431	53.214	97.710	1.00 19.91
MOTA	3802	C	LYS	A	479	38.062	54.584	97.475	1.00 24.93
ATOM	3803	0	LYS	Α	479	38.666	54.815	96.421	1.00 21.31
ATOM	3804	CB	LYS	Α	479	38.008	52.527	98.946	1.00 21.40
ATOM	3805	CG	LYS	Α	479	37.277	51.235	99.269	1.00 30.67
MOTA	3806	CD	LYS	A	479	37.479	50.754	100.695	1.00 26.84
MOTA	3807	CE	LYS	Α	479	36.139	50.430	101.349	1.00 61.23
ATOM	3808	NZ	LYS	Α	479	35.893	48.993	101.540	1.00 56.94
ATOM	3809	N	GLU			37.915	55.478	98.461	1.00 20.21
MOTA	3810	CA	GLU			38.458	56.794	98.368	1.00 19.79
ATOM	3811	C	GLU			39.871	56.781	97.857	1.00 24.31
ATOM	3812	o	GLU			40.211	57.522	96.942	1.00 24.33
MOTA	3813	CB	GLU			38.450	57.539	99.736	1.00 23.77
		CG	GLU						
ATOM	3814					39.587	58.602	99.845	1.00 50.65
MOTA	3815	CD	GLU			40.676		100.891	1.00 92.31
ATOM	3816	OE1	GLU			40.466		102.018	1.00100.00
MOTA	3817	OE2	GLU			41.876		100.467	1.00 61.00
MOTA	3818	N	ASP			40.719	55.978	98.463	1.00 18.88
ATOM	3819	CA	ASP			42.108	55.960	98.058	1.00 20.42
ATOM	3820	C	ASP			42.402	55.419	96.666	1.00 24.75
ATOM	3821	0	ASP			43.568	55.429	96.273	1.00 24.36
ATOM	3822	CB	ASP			43.028	55.281	99.094	1.00 24.59
MOTA	3823	CG	ASP			42.801	53.787	99.146	1.00 32.90
MOTA	3824		ASP			42.001	53.254	98.393	1.00 25.09
MOTA	3825	OD2	ASP			43.502		100.099	1.00 15.96
MOTA	3826	N	ASP			41.403	54.934	95.911	1.00 20.60
ATOM	3827	CA	ASP			41.682	54.431	94.553	1.00 17.36
MOTA	3828	C	ASP			41.291	55.406	93.452	1.00 23.26
ATOM	3829	0	ASP			41.684	55.278	92.300	1.00 22.77
ATOM	3830	CB	ASP			40.957	53.088	94.261	1.00 19.83
ATOM	3831	CG	ASP			41.251	52.049	95.322	1.00 21.84
ATOM	3832		ASP			42.350	51.577	95.508	1.00 26.18
ATOM	3833		ASP			40.212	51.759	96.060	1.00 24.50
ATOM	3834	N	LEU			40.479	56.384	93.785	1.00 19.29
ATOM	3835	CA	LEU			39.994	57.287	92.761	1.00 19.61
MOTA	3836	C	LEU			41.047	58.011	91.918	1.00 28.05
ATOM	3837	0	LEU			40.892	58.164	90.689	1.00 23.72
MOTA	3838	CB	LEU			38.983	58.255	93.385	1.00 18.83
MOTA	3839		LEU			37.801	57.488	93.925	1.00 21.23
ATOM	3840		LEU			36.843	58.474		
MOTA	3841		LEU			37.102	56.761	92.775	1.00 21.62
ATOM	3842	N	asn			42.109	58.476	92.604	1.00 24.68
MOTA	3843	CA	asn	Α	484	43.184	59.241	91.977	1.00 26.32
MOTA	3844	С	ASN			44.011	58.460	91.037	1.00 29.70
MOTA	3845	0	ASN			44.687	59.004	90.187	1.00 31.57
ATOM	3846	CB	asn			44.126	59.910	92.991	1.00 36.64
MOTA	3847	CG	asn	Α	484	43.400	60.944	93.852	1.00100.00
ATOM	3848		ASN			42.425	61.578	93.405	1.00100.00
MOTA	3849	ND2	asn	A	484	43.857	61.118	95.095	1.00100.00
MOTA	3850	N	SER	A	485	43.975	57.186	91.187	1.00 24.87
ATOM	3851	CA	SER	A	485	44.786	56.391	90.316	1.00 24.26
MOTA	3852	C	SER	A	485	44.060	56.018	89.023	1.00 28.05
MOTA	3853	0	SER	Α	485	44.668	55.665	88.013	1.00 28.11
ATOM	3854	CB	SER	Α	485	45.327	55.218	91.097	1.00 29.76
ATOM	3855	OG	SER	A	485	46.024	55.751	92.209	1.00 46.93
MOTA		N	DITTE	70	486	42.734	56.090	89.013	1.00 20.20

MOTA	3857	CA	PHB	A	486	42.154	55.742	87.746	1.00 17.21
MOTA	3858	C	PHE	Α	486	42.721	56.757	86.803	1.00 18.14
ATOM	3859	0	PHE	A	486	43.058	57.852	87.215	1.00 17.89
ATOM	3860	CB			486	40.634	55.739	87.757	1.00 18.39
ATOM	3861	CG	PHE	Α	486	40.103	54.583	88.557	1.00 16.02
ATOM	3862		PHE			40.200	53.282	88.075	1.00 16.61
ATOM	3863		PHE			39.465	54.795	89.773	1.00 18.83
ATOM	3864		PHE			39.690	52.209	88.803	1.00 18.00
ATOM	3865	CE2			486	38.945	53.737	90.521	1.00 19.85
ATOM	3866	CZ			486	39.061	52.441	90.026	1.00 18.48
ATOM	3867	N			487	42.861	56.383	85.562	1.00 21.79
ATOM	3868	CA			487	43.441	57.269	84.603	1.00 23.98
MOTA	3869	C			487	43.040	56.857	83.218	1.00 25.59
ATOM	3870	0			487	42.702	55.697	82.974	1.00 25.22
ATOM	3871	CB			487	44.971	57.094	84.710	1.00 27.75
MOTA	3872	CG			487	45.738	58.097	83.882	1.00 27.73
MOTA	3873		ASN			45.861	57.971	82.652	1.00 29.73
	3874		ASN			46.225	59.124	84.561	1.00 25.73
ATOM	3875	ND2 N			488		57.831	82.323	1.00 43.44
MOTA						43.112			
MOTA	3876	CA C			488 488	42.772	57.622	80.931	1.00 27.10
ATOM	3877				488	43.584	56.498	80.330	1.00 31.70
MOTA	3878	0			488	43.193	55.858	79.348	1.00 34.84
ATOM	3879	CB			489	42.935	58.913	80.151	1.00 29.22
ATOM	3880	N Cr				44.724	56.236	80.941	
ATOM	3881	CA			489	45.561	55.162	80.435	1.00 30.81
ATOM ATOM	3882	С 0			489	44.925 45.323	53.824 52.852	80.631	
	3883				489			80.020	1.00 30.02
ATOM	3884	CB			489	46.976	55.160	81.011	1.00 38.41
ATOM	3885	OG1			489	46.912	55.010	82.404	1.00 41.46
ATOM	3886	CG2 N			490	47.637	56.480	80.660 81.490	1.00 38.83
ATOM ATOM	3887 3888	CA			490	43.929 43.233	53.794 52.543	81.746	1.00 24.45
MOTA	3889	C			490	42.601	51.948	80.493	1.00 24.97
ATOM	3890	0			490	42.425	50.748	80.402	1.00 22.10
MOTA	3891	CB	ASP			42.423	52.721	82.799	1.00 25.90
ATOM	3892	CG	ASP			42.562	53.055	84.171	1.00 24.88
MOTA	3893		ASP			43.680	52.794	84.564	1.00 25.35
ATOM	3894		ASP			41.658	53.659	84.887	1.00 25.35
ATOM	3895	N	LEU			42.204	52.815	79.565	1.00 21.62
ATOM	3896	CA	LEU			41.511	52.435	78.358	1.00 20.35
MOTA	3897	C	LEU			42.419	52.134	77.204	1.00 24.60
ATOM	3898	0			491	41.953	51.804	76.129	1.00 22.93
MOTA	3899	СВ			491	40.558	53.558	77.974	1.00 17.68
MOTA	3900	CG	LEU			39.675	53.966	79.142	1.00 21.34
ATOM	3901		LEU			38.617	54.974	78.654	1.00 22.28
ATOM	3902		LEU			39.047	52.741	79.833	1.00 13.64
ATOM	3903	N	LYS			43.694	52.287	77.481	1.00 23.03
MOTA	3904	CA	LYS			44.808	52.128	76.550	1.00 28.41
ATOM	3905	C	LYS			44.622	51.088	75.458	1.00 32.14
MOTA	3906	0	LYS			44.686	51.351	74.258	1.00 32.11
ATOM	3907	CB	LYS			46.072	51.761	77.321	1.00 32.10
MOTA	3908	CG	LYS			47.245	52.725	77.222	1.00 56.93
MOTA	3909	CD	LYS			48.432	52.262	78.074	1.00 74.53
ATOM	3910	CE	LYS			49.180	51.054	77.505	1.00 90.15
MOTA	3911	NZ	LYS			50.604	50.994	77.883	1.00100.00
ATOM	3912	N	ASP			44.458	49.873	75.850	1.00 30.30
ATOM	3913	CA	ASP			44.351	48.861	74.816	1.00 33.58
ATOM	3914	C	ASP			42.998	48.200	74.714	1.00 37.42
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MOTA	3915	0	ASP	Δ	493	42.920	47.035	74.328	1.00 39.47
ATOM	3916	CB	ASP			45.457	47.814	75.017	1.00 37.95
ATOM	3917	CG	ASP			46.796	48.476	75.218	1.00 55.04
ATOM	3918		ASP			47.339	49.149	74.345	1.00 60.98
ATOM	3919	OD2				47.283	48.292	76.433	1.00 44.86
ATOM	3920	N			494	41.953	48.969	75.054	1.00 27.85
MOTA	3921	CA	LEU	A	494	40.598	48.497	75.031	1.00 23.42
MOTA	3922	C	LEU	A	494	39.891	48.937	73.771	1.00 26.34
MOTA	3923	0	LEU	A	494	39.878	50.114	73.446	1.00 28.45
ATOM	3924	CB	LEU	A	494	39.835	49.057	76.234	1.00 21.52
ATOM	3925	CG	LEU	А	494	40.341	48.550	77.564	1.00 21.47
MOTA	3926	CD1				39.298	48.922	78.586	1.00 21.58
ATOM	3927		LEU			40.490	47.032	77.551	1.00 22.77
ATOM	3928	N			495	39.288	47.978	73.065	1.00 18.61
MOTA	3929	CA			495	38.543	48.304	71.882	1.00 18.82
ATOM	3930	C			495	37.207	48.925	72.308	1.00 22.38
ATOM	3931	0			495	36.791	48.850	73.479	1.00 18.55
ATOM	3932	CB			495	38.244	47.030	71.131	1.00 20.60
ATOM	3933	og			495	37.346	46.263	71.937	1.00 24.08
ATOM	3934	N	SER	Α	496	36.513	49.517	71.355	1.00 19.51
ATOM	3935	CA	SER	Α	496	35.232	50.083	71.680	1.00 19.05
MOTA	3936	C	SER	Α	496	34.360	48.953	72.243	1.00 22.03
ATOM	3937	0	SER	Α	496	33.577	49.165	73.174	1.00 19.08
ATOM	3938	CB	SER	Α	496	34.604	50.750	70.470	1.00 20.48
ATOM	3939	OG	SER	A	496	34.129	49.722	69.664	1.00 27.30
ATOM	3940	N	HIS	Α	497	34.539	47.730	71.700	1.00 18.16
ATOM	3941	CA	HIS			33.804	46.555	72.180	1.00 18.79
MOTA	3942	c	HIS			34.034	46.302	73.674	1.00 21.10
ATOM	3943	ō	HIS			33.119	45.976	74.445	1.00 20.24
ATOM	3944	CB	HIS			34.159	45.285	71.362	1.00 20.44
ATOM	3945	CG	HIS			33.757	45.504	69.949	1.00 28.33
ATOM	3945		HIS			34.663	45.976	68.994	1.00 23.33
ATOM	3947		HIS			32.527	45.413	69.366	1.00 31.27
ATOM	3948		HIS			33.977	46.117	67.860	1.00 33.65
ATOM	3949		HIS			32.690	45.785	68.060	1.00 33.66
ATOM	3950	Ŋ			498	35.281	46.439	74.074	1.00 18.94
MOTA	3951	CA	GLN			35.663	46.218	75.458	1.00 17.24
MOTA	3952	C			498	35.169	47.290	76.384	1.00 19.29
MOTA	3953	0	GLN	A	498	34.800	46.987	77.507	1.00 16.53
MOTA	3954	CB	GLN	Α	498	37.149	45.987	75.601	1.00 17.60
MOTA	3955	CG	GLN	Α	498	37.537	44.613	75.002	1.00 21.50
MOTA	3956	CD	GLN	A	498	39.031	44.468	74.905	1.00 24.22
ATOM	3957	OE1	GLN	A	498	39.659	45.268	74.241	1.00 19.69
MOTA	3958	NE2	GLN	A	498	39.597	43.501	75.602	1.00 20.25
ATOM	3959	N	LEU	Α	499	35.129	48.539	75.916	1.00 20.34
MOTA	3960	CA	LEU	Α	499	34.609	49.657	76.736	1.00 20.43
ATOM	3961	C	LEU			33.127	49.402	77.084	1.00 20.53
MOTA	3962	0	LEU			32.638	49.601	78.228	1.00 18.25
ATOM	3963	СВ	FEA			34.620	50.962	75.921	1.00 21.15
ATOM	3964	CG	LEU			36.002	51.503	75.675	1.00 26.16
ATOM			LEU			35.875	52.920	75.099	1.00 27.09
	3965								
ATOM	3966		LEU			36.728	51.545	77.002	1.00 27.76
MOTA	3967	N	ASN			32.410	48.936	76.038	1.00 16.19
MOTA	3968	CA	ASN			31.009	48.628	76.174	1.00 14.95
MOTA	3969	С	ASN			30.755	47.507	77.191	1.00 15.08
MOTA	3970	0	ASN			29.853	47.590	78.034	1.00 16.94
MOTA	3971	CB	ASN	Α	500	30.430	48.314	74.794	1.00 16.19
	3972	CG	ASN			28.938	48.113	74.817	1.00 26.36

MOTA	3973	OD1	ASN	A	500	28.161	48.965	75.284	1.00 26.44
MOTA	3974	ND2	ASN	A	500	28.532	46.966	74.321	1.00 28.52
MOTA	3975	N	GLU	Α	501	31.558	46.458	77.099	1.00 11.19
MOTA	3976	CA	GLU	Α	501	31.426	45.333	78.006	1.00 13.12
MOTA	3977	C	GLU	A	501	31.768	45.748	79.427	1.00 15.66
ATOM	3978	0	GLU	A	501	31.172	45.299	80.401	1.00 15.79
MOTA	3979	CB	GLU	A	501	32.343	44.197	77.600	1.00 16.26
MOTA	3980	CG	GLU	A	501	32.213	43.004	78.571	1.00 18.32
ATOM	3981	CD	GLU	Α	501	30.807	42.412	78.640	1.00 45.05
MOTA	3982	OE1	GLU	Α	501	29.953	42.623	77.802	1.00 25.19
ATOM	3983	OE2	GLU	Α	501	30.582	41.647	79.694	1.00 28.99
MOTA	3984	N	PHE	А	502	32.758	46.625	79.528	1.00 13.04
MOTA	3985	CA	PHB	Α	502	33.195	47.161	80.792	1.00 14.85
ATOM	3986	С	PHE	A	502	32.009	47.853	81.479	1.00 16.26
MOTA	3987	0	PHE	Α	502	31.683	47.658	82.653	1.00 14.73
ATOM	3988	CB	PHE	Α	502	34.343	48.173	80.519	1.00 17.18
ATOM	3989	CG	PHE	A	502	34.522	49.209	81.611	1.00 17.10
MOTA	3990	CD1	PHE	Α	502	34.862	48.837	82.909	1.00 16.09
ATOM	3991	CD2	PHE	A	502	34.343	50.566	81.340	1.00 19.32
MOTA	3992	CE1	PHE	Α	502	35.023	49.787	83.920	1.00 19.64
ATOM	3993	CE2	PHE	Α	502	34.482	51.528	82.338	1.00 21.09
ATOM	3994	CZ	PHE	Α	502	34.826	51.142	83.632	1.00 20.37
ATOM	3995	N	LEU	A	503	31.371	48.676	80.686	1.00 13.41
ATOM	3996	CA	LEU	А	503	30.240	49.412	81.162	1.00 14.23
ATOM	3997	C	LEU	Α	503	29.077	48.486	81.516	1.00 17.32
MOTA	3998	0	LEU	A	503	28.386	48.671	82.526	1.00 16.59
ATOM	3999	CB	LEU	A	503	29.807	50.457	80.105	1.00 14.70
ATOM	4000	CG	LEU	A	503	30.726	51.674	80.068	1.00 17.55
ATOM	4001	CD1	LEU	A	503	30.419	52.538	78.859	1.00 14.03
MOTA	4002	CD2	LEU	A	503	30.471	52.511	81.298	1.00 16.66
ATOM	4003	N	ALA	A	504	28.850	47.485	80.656	1.00 13.74
MOTA	4004	CA	ALA	A	504	27.773	46.557	80.894	1.00 12.59
MOTA	4005	С	ALA	A	504	27.999	45.866	82.222	1.00 16.53
MOTA	4006	0	ALA	A	504	27.098	45.679	83.043	1.00 14.36
MOTA	4007	CB	ALA	Α	504	27.728	45.522	79.764	1.00 12.80
MOTA	4008	N	GLN	A	505	29.248	45.463	82.436	1.00 15.92
MOTA	4009	CA	GLN	A	505	29.522	44.794	83.682	1.00 16.60
ATOM	4010	C	GLN	A	505	29.325	45.750	84.852	1.00 20.60
MOTA	4011	0	GLN	A	505	28.804	45.372	85.908	1.00 19.55
MOTA	4012	CB	GLN			30.918	44.175	83.723	1.00 17.18
MOTA	4013	CG	GLN			31.138	43.133	82.613	1.00 19.88
ATOM	4014	CD	GLN			32.590	42.647	82.571	1.00 41.41
MOTA	4015		GLN			33.449	43.090	83.357	1.00 24.90
ATOM	4016		GLN			32.879	41.752	81.640	1.00 25.28
ATOM	4017	N	THR			29.740	46.995		1.00 15.09
ATOM	4018	CA	THR			29.627	47.975	85.737	1.00 15.72
MOTA	4019	C	THR			28.197	48.252	86.095	1.00 20.52
MOTA	4020	0	THR			27.793	48.341	87.265	1.00 15.63
MOTA	4021	CB	THR			30.431	49.240	85.444	1.00 16.53
ATOM	4022		THR			31.755	48.836	85.191	1.00 16.30
ATOM	4023		THR			30.421	50.122	86.688	1.00 22.85
MOTA	4024	N	LEU			27.429	48.348	85.031	1.00 17.82
MOTA	4025	CA	LEU			26.016	48.618	85.160	1.00 18.18
MOTA	4026	C	LEU			25.279	47.542	85.935	1.00 22.38
ATOM	4027	0	LEU			24.366	47.842	86.695	1.00 18.84
ATOM	4028	CB	LEU			25.432	48.853	83.782	1.00 17.44
ATOM	4029	CG	LEU			23.998	49.231	83.794	1.00 17.74
ATOM	4030	CDI	LEU	A	507	23.783	50.582	84.468	1.00 12.64

7) TVOM	4021	സാ	T 1217	7	507	23.610	49.318	82.335	1.00 22.64
MOTA	4031 4032		LEU			25.686	46.285		
MOTA	-	N	GLN					85.754	1.00 18.81
MOTA	4033	CA	GLN			25.036	45.213	86.478	1.00 17.54
ATOM	4034	C	GLN			25.141	45.432	88.007	1.00 24.09
MOTA	4035	0	GLN			24.382	44.861	88.816	1.00 23.10
ATOM	4036	CB	GLN	Α	508	25.655	43.859	86.136	1.00 17.62
MOTA	4037	CG	GLN	Α	508	25.383	43.365	84.699	1.00 35.49
ATOM	4038	CD	GLN	Α	508	25.734	41.880	84.540	1.00 39.81
MOTA	4039	OE1	GLN	Α	508	26.759	41.440	85.074	1.00 23.94
ATOM	4040	NE2	GLN			24.870	41.090	83.871	1.00 20.37
MOTA	4041	N	ARG			26.085	46.268	88.430	1.00 19.00
ATOM	4042	CA	ARG			26.279	46.528	89.849	1.00 19.42
	4043		ARG			25.878	47.952		1.00 15.42
MOTA		C						90.230	
MOTA	4044	0	ARG			26.207	48.445	91.317	1.00 27.11
ATOM	4045	CB	ARG			27.696	46.182	90.352	1.00 20.80
MOTA	4046	CG	ARG			28.145	44.770	89.965	1.00 28.27
MOTA	4047	CD	ARG	Α	509	27.749	43.726	90.993	1.00 46.76
MOTA	4048	NE	ARG	Α	509	28.476	43.944	92.247	1.00 78.35
ATOM	4049	cz	ARG	Α	509	29.639	43.368	92.585	1.00 79.72
MOTA	4050	NH1	ARG	A	509	30.276	42.489	91.795	1.00 53.80
ATOM	4051	NH2	ARG	Α	509	30.169	43.687	93.762	1.00 60.24
MOTA	4052	N	ALA			25.155	48.625	89.337	1.00 20.12
ATOM	4053	CA	ALA			24.752	49.967	89.669	1.00 18.42
ATOM	4054	C	ALA			23.784	49.926	90.838	1.00 25.78
ATOM	4055	0	ALA			23.077	48.939	91.025	1.00 23.74
ATOM	4056	CB	ALA			24.145	50.643	88.477	1.00 23.74
						23.759			
ATOM	4057	N	PRO				50.985	91.650	1.00 25.50
ATOM	4058	CA	PRO			24.544	52.194	91.447	1.00 23.03
MOTA	4059	C	PRO			25.898	52.188	92.076	1.00 23.95
MOTA	4060	0	PRO			26.156	51.518	93.052	1.00 22.19
MOTA	4061	CB	PRO			23.824	53.261	92.253	1.00 22.56
MOTA	4062	CG	PRO	A	511	23.137	52.505	93.370	1.00 29.69
MOTA	4063	CD	PRO	Α	511	22.975	51.070	92.900	1.00 26.79
ATOM	4064	N	LEU	Α	512	26.732	53.019	91.512	1.00 20.39
MOTA	4065	CA	LEU	A	512	28.028	53.234	92.046	1.00 21.08
MOTA	4066	C	LEU	A	512	27.901	54.569	92.773	1.00 24.40
MOTA	4067	0	LEU	A	512	26.977	55.361	92.485	1.00 22.11
MOTA	4068	CB	LEU	Α	512	29.056	53.362	90.914	1.00 23.71
ATOM	4069	CG	LEU	Α	512	29.726	52.029	90.535	1.00 29.56
ATOM	4070	CD1				28.684	50.974	90.097	1.00 29.29
ATOM	4071		LEU			30.679	52.329	89.388	1.00 35.20
ATOM	4072	N	PRO			28.795	54.837	93.722	1.00 20.62
ATOM	4073	CA	PRO			28.697	56.084	94.406	1.00 18.91
MOTA	4074	C	PRO			28.800	57.225	93.425	1.00 18.47
						29.499		92.430	1.00 20.15
ATOM	4075	0	PRO				57.141		
ATOM	4076	CB	PRO			29.806	56.075	95.479	1.00 20.51
MOTA	4077	CG			513	30.249	54.632	95.621	1.00 22.60
MOTA	4078	CD	PRO			29.764	53.913	94.390	1.00 19.80
ATOM	4079	N	LEU			28.089	58.293	93.711	1.00 16.89
MOTA	4080	CA	LEU			28.094	59.452	92.819	1.00 20.06
MOTA	4081	C	LEU	A	514	29.506	59.962	92.538	1.00 23.56
MOTA	4082	0	LEU	A	514	29.852	60.219	91.383	1.00 23.55
MOTA	4083	CB	LEU	A	514	27.127	60.561	93.299	1.00 20.30
MOTA	4084	CG	LEU			27.127	61.795	92.420	1.00 25.47
MOTA	4085		FEA			26.627	61.425	91.029	1.00 29.21
ATOM	4086		LEU			26.244	62.858	93.047	1.00 24.39
MOTA	4087	N	GLY			30.327	60.079	93.609	1.00 17.83
ATOM	4088	CA	GLY			31.688	60.532	93.469	1.00 16.95
ATOM	4000	ÇM.	GUI	^	J 13	71.000	00.334	23.403	A.UU 10.93

ATOM	4089	С	GLY	Α	515	32.448	59.638	92.469	1.00 23.12
ATOM	4090	0			515	33.286	60.105	91.687	1.00 23.24
ATOM	4091	N			516	32.150	58.337	92.477	1.00 19.26
MOTA	4092	CA			516	32.835	57.435	91.550	1.00 18.68
	4093	C			516	32.466	57.705	90.105	1.00 17.66
ATOM					516		57.751	89.221	1.00 17.00
MOTA	4094	0				33.295			
ATOM	4095	CB			516	32.617	55.957	91.861	1.00 18.09
ATOM	4096	CG			516	33.216	55.585	93.169	1.00 23.48
ATOM	4097	ND1	HIS	A	516	33.588	54.271	93.463	1.00 27.23
ATOM	4098	CD2	HIS	A	516	33.486	56.344	94.256	1.00 26.54
MOTA	4099	CE1	HIS	A	516	34.072	54.256	94.699	1.00 25.60
ATOM	4100	NE2	HIS	Α	516	34.028	55.481	95.205	1.00 27.20
MOTA	4101	N	ILE	A	517	31.198	57.925	89.871	1.00 15.26
ATOM	4102	CA	ILE	A	517	30.787	58.158	88.523	1.00 16.45
ATOM	4103	C	ILE	Α	517	31.347	59.465	88.034	1.00 17.88
ATOM	4104	0	ILE	A	517	31.807	59.622	86.910	1.00 17.44
ATOM	4105	CB			517	29.274	58.016	88.371	1.00 23.63
ATOM	4106		ILE			28.826	56.606	88.810	1.00 25.40
ATOM	4107	CG2	ILE			28.830	58.270	86.925	1.00 26.36
ATOM	4108		ILE			29.394	55.444	87.985	1.00 22.65
ATOM	4109	N			518	31.344	60.426	88.912	1.00 16.53
ATOM		CA	LYS			31.906	61.699	88.505	1.00 17.58
	4110				518		61.521	88.084	1.00 20.03
ATOM	4111	C				33.372			
ATOM	4112	0			518	33.826	62.082	87.101	1.00 16.13
ATOM	4113	CB			518	31.770	62.744	89.631	1.00 15.25
ATOM	4114	CG			518	30.350	63.266	89.751	1.00 14.67
ATOM	4115	CD	LYS			30.170	64.148	90.965	1.00 20.03
MOTA	4116	CE	LYS			28.844	64.880	90.939	1.00 32.46
MOTA	4117	NZ	LYS			28.728	65.790	92.088	1.00 50.93
MOTA	4118	N			519	34.110	60.724	88.865	1.00 18.45
MOTA	4119	CA	ARG			35.512	60.472	88.617	1.00 15.13
MOTA	4120	C	ARG	A	519	35.683	59.760	87.297	1.00 18.23
MOTA	4121	0	ARG	A	519	36.584	60.047	86.503	1.00 17.57
MOTA	4122	CB	ARG	Α	519	36.138	59.655	89.746	1.00 13.90
MOTA	4123	CG	ARG	A	519	37.604	59.313	89.444	1.00 15.17
MOTA	4124	CD	ARG	A	519	38.522	60.538	89.464	1.00 25.46
ATOM	4125	NE	ARG	A	519	39.959	60.229	89.280	1.00 25.30
ATOM	4126	CZ	ARG	A	519	40.836	61.098	88.768	1.00 29.02
ATOM	4127	NH1	ARG	A	519	40.478	62.322	88.355	1.00 25.41
ATOM	4128	NH2	ARG	A	519	42.093	60.731	88.649	1.00 20.47
MOTA	4129	N	MET	А	520	34.784	58.815	87.054	1.00 15.71
ATOM	4130	CA	MET	A	520	34.835	58.067	85.805	1.00 13.65
MOTA	4131	С	MET	A	520	34.710	59.019	84.593	1.00 17.01
MOTA	4132	0	MET	A	520	35.395	58.879	83.606	1.00 17.28
MOTA	4133	CB	MET	A	520	33.761	56.964	85.799	1.00 16.80
MOTA	4134	CG	MET	Α	520	33.859	55.982	84.649	1.00 18.55
ATOM	4135	SD			520	32.566	54.696	84.755	1.00 21.68
ATOM	4136	CE	MET	Α	520	32.937	53.918	86.347	1.00 20.68
ATOM	4137	N	GLN	A	521	33.846	60.027	84.664	1.00 15.21
ATOM	4138	CA			521	33.744	60.956	83.548	1.00 12.55
ATOM	4139	C			521	35.045	61.773	83.498	1.00 20.15
ATOM	4140	0			521	35.588	62.037	82.399	1.00 16.73
ATOM	4141	СВ			521	32.488	61.843	83.607	1.00 10.92
ATOM	4142	CG	GLN			32.572	63.141	82.741	1.00 15.12
ATOM	4143	CD			521	32.750	62.919	81.235	1.00 22.48
MOTA	4144		GLN			33.241	63.822	80.479	1.00 23.27
ATOM	4145		GTN			32.374	61.737	80.773	1.00 23.27
ATOM	4146	NE2	GLU			35.577	62.168	84.681	1.00 17.95
VION	2720	74	GUU	H	266	33.371	02.100	A00T	L.00 1/.93

MOTA	4147	CA	GLU A	A 522	36.821	62.966	84.706	1.00 17.15
ATOM	4148	С	GLU A	A 522	38.007	62.218	84.051	1.00 25.41
MOTA	4149	0	GLU A	A 522	38.860	62.814	83.370	1.00 20.91
MOTA	4150	СВ		A 522	37.318	63.258	86.109	1.00 19.27
MOTA	4151	CG		A 522	36.560	64.272	86.977	1.00 38.73
MOTA	4152	CD		A 522	37.423	64.542	88.180	1.00 59.23
MOTA	4153		GLU A		38.353	65.321	88.160	1.00 77.57
ATOM	4154	OE2		A 522	37.148	63.788	89.208	1.00 62.80
MOTA	4155	N		A 523	38.120	60.903	84.278	1.00 19.75
MOTA	4156	CA		A 523	39.249	60.212	83.691	1.00 16.48
ATOM	4157	C		A 523	39.045	59.583	82.320	1.00 19.65
ATOM	4158	0		A 523	40.003	59.432	81.578	1.00 20.76
ATOM	4159	СВ		A 523	39.870	59.234	84.668	1.00 19.84
ATOM	4160	CG1			40.209	59.969	85.953	1.00 19.70
				A 523			84.997	1.00 19.70
MOTA	4161	CG2			38.892	58.115		
ATOM	4162	N		A 524	37.810	59.186	81.966	1.00 17.18
ATOM	4163	CA		A 524	37.566	58.516	80.679	1.00 12.15
MOTA	4164	C		A 524	36.817	59.313	79.623	1.00 17.66
ATOM	4165	0		A 524	36.767	58.933	78.451	1.00 16.12
MOTA	4166	CB		A 524	36.860	57.185	80.860	1.00 11.05
MOTA	4167	CG		A 524	37.563	56.240	81.797	1.00 14.57
ATOM	4168	CD1		A 524	38.948	56.199	81.935	1.00 13.44
ATOM	4169	CD2		A 524	36.784	55.367	82.556	1.00 16.79
ATOM	4170	CE1		A 524	39.530	55.296	82.832	1.00 16.24
ATOM	4171	CE2		A 524	37.354	54.455	83.443	1.00 18.03
ATOM	4172	CZ		A 524	38.739	54.419	83.580	1.00 25.46
ATOM	4173	OH		A 524	39.305	53.514	84.463	1.00 20.75
ATOM	4174	N		A 525	36.209	60.400	80.039	1.00 16.08
MOTA	4175	CA		A 525	35.485	61.243	79.098	1.00 16.42
ATOM	4176	C	ASN A		34.439	60.482	78.253	1.00 20.20
MOTA	4177	0		A 525	34.305	60.658	77.022	1.00 18.84
ATOM	4178	CB		A 525	36.460	62.041	78.243	1.00 16.14
ATOM	4179	CG		A 525	35.744	63.162	77.527	1.00 23.40
MOTA	4180		ASN A		34.621	63.545	77.906	1.00 17.28
MOTA	4181	ND2	ASN A		36.376	63.686	76.478	1.00 18.64
ATOM	4182	N		A 526	33.653	59.641	78.949	1.00 16.41
ATOM	4183	CA		A 526	32.619	58.905	78.279	1.00 15.86
ATOM	4184	C	PHE A		31.540	59.825	77.704	1.00 19.88
MOTA	4185	0		A 526	30.864	59.459	76.754	1.00 17.12
ATOM	4186	CB		A 526	32.011	57.849	79.207	1.00 18.58
ATOM	4187	CG		A 526	32.899	56.644	79.394	1.00 21.46
MOTA	4188		PHE A		33.760	56.218	78.378	1.00 26.02
ATOM	4189		PHE A		32.880	55.920	80.587	1.00 21.37
MOTA	4190		PHE I		34.569	55.090	78.523	1.00 24.79
MOTA	4191		PHE A		33.686	54.792	80.758	1.00 21.37
MOTA	4192	CZ		A 526	34.517	54.368	79.721	1.00 20.49
MOTA	4193	N .	ASN A		31.322	61.012	78.276	1.00 15.47
ATOM	4194	CA	ASN A		30.290	61.867	77.727	1.00 13.11
ATOM	4195	С	ASN A		30.607	62.185	76.300	1.00 19.43
MOTA	4196	0	ASN A		29.735	62.562	75.517	1.00 19.12
MOTA	4197	CB	ASN A		30.211	63.232	78.409	1.00 16.84
ATOM	4198	CG	ASN A	A 527	29.525	63.216	79.754	1.00 27.65
MOTA	4199	OD1	ASN A	A 527	29.633	64.170	80.558	1.00 22.99
MOTA	4200	ND2	ASN A	A 527	28.811	62.142	80.005	1.00 12.18
MOTA	4201	N	ALA A	A 528	31.886	62.083	75.972	1.00 17.86
ATOM	4202	CA	ALA A	A 528	32.302	62.431	74.611	1.00 19.52
MOTA	4203	C	ALA A	A 528	32.076	61.351	73.550	1.00 23.88
ATOM	4204	0	ALA A	A 528	32.179	61.595	72.360	1.00 19.92

MOTA	4205	CB	ALA	A	528	33.777	62.815	74.605	1.00	20.88
MOTA	4206	N	ILE	A	529	31.832	60.132	73.967	1.00	18.40
ATOM	4207	CA	ILE	A	529	31.678	59.056	73.009	1.00	16.46
MOTA	4208	С	ILE	Α	529	30.326	59.065	72.332	1.00	21.76
ATOM	4209	0	ILE	A	529	29.305	59.139	72.984	1.00	22.99
ATOM	4210	CB			529	31.946	57.755	73.756	1.00	19.71
ATOM	4211		ILE			33.474	57.651	73.951	1.00	18.95
ATOM	4212	CG2			529	31.364	56.591	72.951		18.71
ATOM	4213		ILE			33.945	56.461	74.761		22.33
ATOM	4214	N			530	30.294	58.969	71.026		22.69
ATOM	4215	CA			530	29.002	58.981	70.353		23.57
ATOM	4216	C			530	28.409	57.630	69.959		26.83
ATOM	4217	ō			530	27.248	57.564	69.552		26.76
ATOM	4218	CB			530	28.984	59.978	69.203		38.14
ATOM	4219	CG			530	29.071	61.399	69.728		61.28
ATOM	4220		ASN			28.136	61.910	70.369		58.85
ATOM	4221		ASN			30.207	62.029	69.479		53.69
ATOM	4222	N			531	29.217	56.571	70.074		21.41
ATOM	4223	CA			531	28.830	55.193	69.793		18.74
ATOM	4224	C			531	27.582	54.954	70.629		20.62
ATOM	4225	0			531	27.591	55.148	71.848		20.50
		СВ			531	29.973	54.294	70.281		19.20
ATOM	4226	CG			531	29.636	52.824	70.201		31.49
ATOM	4227		ASN			28.663	52.353	70.208		22.31
ATOM	4228		ASN			30.431	52.095	69.406		18.30
ATOM	4229				532		54.584	69.996		16.48
ATOM	4230	n Ca			532	26.489	54.445	70.724		16.29
ATOM	4231	C			532	25.237 25.164		71.856		18.06
ATOM	4232				532		53.417 53.629	72.888		20.46
ATOM	4233	0				24.508				
ATOM	4234	CB			532	24.032	54.424	69.782		22.96 27.85
MOTA	4235	OG			532	24.151	53.318	68.884		12.93
ATOM	4236	N CA	GLU GLU			25.811	52.298	71.667 72.657		13.78
ATOM	4237	C			533	25.776 26.436	51.257 51.733	73.911		22.43
MOTA MOTA	4238	0			533	25.912	51.753	75.031		20.25
	4239	CB	GLU				50.013	72.130		15.68
MOTA MOTA	4240	CG	GLU			26.502 25.676	49.346	71.022		16.38
ATOM	4241 4242	CD	GLU			24.472	48.583	71.547		31.64
ATOM			GLU			24.351	48.232	72.709		26.24
ATOM	4243 4244		GLU			23.567	48.306	70.632		22.18
ATOM	4245	N			534	27.623	52.323	73.715		16.64
ATOM	4245	CA			534	28.399	52.848	74.844		15.19
ATOM	4247	CA	ILE			27.683	53.998	75.530		14.80
MOTA	4248	0			534	27.557	54.017	76.751		16.34
ATOM	4249	CB			534	29.804	53.292	74.421		17.45
ATOM	4250		ILE			30.604	52.045	74.021		16.13
ATOM	4251		ILE			30.489	54.104	75.543		16.10
ATOM	4252		ILE			31.844	52.338	73.172		19.66
ATOM	4253	N	ARG			27.209	54.955	74.757		13.65
ATOM	4254	CA	ARG			26.513	56.082	75.384		15.71
		C	ARG				55.619	76.182		14.83
ATOM	4255 4256	0	ARG			25.292 25.031	56.046	77.295		16.79
ATOM			ARG			26.077		74.357		19.62
ATOM	4257 4258	CB	ARG				57.102	75.006		14.05
ATOM		CG				25.578	58.396			
ATOM	4259	CD	ARG ARG			25.425	59.486	73.947 74.553		13.02
ATOM	4260	NE	ARG			25.150	60.773			19.81 31.45
ATOM	4261	CZ				26.071	61.555	75.128		
ATOM	4262	MUI	ARG	A	333	27.361	61.233	75.186	1.00	28.13

ATOM	4263	NH2	ARG				25.687	62.706	75.647	1.00 22.19
MOTA	4264	N	PHE	Α	536		24.536	54.737	75.575	1.00 13.92
MOTA	4265	CA	PHE	Α	536		23.389	54.204	76.215	1.00 12.79
ATOM	4266	С	PHE	Α	536		23.740	53.693	77.615	1.00 14.46
ATOM	4267	0	PHE	Α	536		23.149	54.108	78.611	1.00 16.15
ATOM	4268	CB	PHE	Α	536		22.900	53.039	75.342	1.00 15.26
ATOM	4269	CG	PHE	Α	536		21.850	52.203	76.023	1.00 16.37
MOTA	4270	CD1			536		20.709	52.802	76.552	1.00 16.83
ATOM	4271	CD2	PHE				21.994	50.824	76.169	1.00 19.63
ATOM	4272		PHE				19.722	52.046	77.174	1.00 16.86
ATOM	4273	CE2			536		21.021	50.049	76.803	1.00 20.21
ATOM	4274	CZ			536		19.882	50.670	77.316	1.00 20.21
		N			537					
MOTA	4275						24.690	52.747	77.674	1.00 11.77
MOTA	4276	CA			537		25.105	52.121	78.937	1.00 11.76
MOTA	4277	C			537		25.696	53.100	79.956	1.00 18.24
ATOM	4278	0			537		25.473	52.999	81.174	1.00 17.20
ATOM	4279	CB			537		26.019	50.937	78.709	1.00 13.64
ATOM	4280	CG			537		25.267	49.722	78.148	1.00 13.64
ATOM	4281	CD	ARG	Α	537		26.131	48.455	77.966	1.00 15.77
ATOM	4282	NE	ARG	A	537		25.256	47.437	77.410	1.00 15.36
MOTA	4283	CZ	ARG	Α	537		24.877	47.385	76.148	1.00 21.63
ATOM	4284	NH1	ARG	Α	537		25.365	48.200	75.215	1.00 14.82
ATOM	4285	NH2	ARG	A	537		23.988	46.465	75.821	1.00 20.40
ATOM	4286	N	TRP	Α	538		26.472	54.053	79.436	1.00 13.41
ATOM	4287	CA	TRP	A	538		27.065	55.079	80.266	1.00 13.47
MOTA	4288	C	TRP	A	538	•	25.957	55.943	80.903	1.00 17.87
ATOM	4289	0	TRP	Α	538		25.954	56.171	82.099	1.00 16.80
ATOM	4290	CB	TRP	Α	538		28.037	55.924	79.407	1.00 11.54
ATOM	4291	CG			538		28.492	57.235	80.033	1.00 12.21
ATOM	4292		TRP				28.350	58.451	79.472	1.00 15.63
ATOM	4293	CD2	TRP				29.203	57.461	81.276	1.00 11.84
ATOM	4294	NE1	TRP				28.889	59.415	80.286	1.00 15.48
ATOM	4295	CE2	TRP				29.428	58.838	81.379	1.00 15.91
ATOM	4296	CE3			538		29.634	56.621	82.304	1.00 13.93
ATOM	4297	CZ2	TRP				30.064	59.418	82.466	1.00 16.48
ATOM	4298	CZ3	TRP				30.278	57.180	83.382	1.00 15.59
ATOM	4299	CH2	TRP				30.489	58.571	83.461	1.00 16.98
ATOM	4300	N			539		24.995	56.427	80.100	1.00 13.56
MOTA	4301	CA			539		23.950	57.251	80.649	1.00 13.46
ATOM	4302	C	LEU				23.109	56.517	81.690	1.00 15.40
MOTA	4303	0	LEU				22.704	57.102	82.675	1.00 17.06
MOTA	4304	CB	LEU		-		23.074	57.102	79.554	
ATOM	4305	CG	LEU		333		23.865	58.813	78.563	1.00 16.07
MOTA	4306		LEU					59.449	77.529	1.00 16.07
			LEU						79.304	
ATOM	4307						24.614	59.889		1.00 14.42
ATOM	4308	N	ARG				22.856	55.223	81.481	1.00 16.81
ATOM	4309	CA					22.096	54.425	82.436	1.00 16.05
ATOM	4310	C	ARG				22.821	54.404	83.764	1.00 18.54
ATOM	4311	0	ARG					54.664	84.821	1.00 20.40
ATOM	4312	CB	ARG					52.973	81.974	1.00 15.71
MOTA	4313	CG	ARG				21.026	52.845	80.716	1.00 19.20
MOTA	4314	CD	ARG				20.461	51.430	80.612	1.00 21.64
ATOM	4315	NE	ARG				19.576	51.166	81.748	1.00 21.09
MOTA	4316	CZ	ARG	A	540		18.903	50.051	81.977	1.00 30.30
ATOM	4317	NH1	ARG	A	540		19.003	49.003	81.176	1.00 22.34
MOTA	4318	NH2	ARG	A	540		18.101	49.987	83.047	1.00 32.88
MOTA	4319	N	LEU	A	541		24.093	54.091	83.685	1.00 12.62
ATOM	4320	CA	LEU	Α	541		24.942	54.027	84.860	1.00 13.44

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ATOM	4321	С	LEU			24.921	55.334	85.630	1.00 19.38
MOTA	4322	0	LEU			24.891	55.375	86.850	1.00 18.05
ATOM	4323	CB	LEU	A	541	26.389	53.723	84.435	1.00 14.55
MOTA	4324	ÇG	LEU	Α	541	27.377	53.612	85.612	1.00 17.61
MOTA	4325	CD1	LEU	Α	541	26.967	52.499	86.584	1.00 14.91
MOTA	4326	CD2	LEU	А	541	28.783	53.322	85.082	1.00 13.20
MOTA	4327	N	CYS	A	542	24.948	56.425	84.883	1.00 18.18
ATOM	4328	CA	CYS	Α	542	24.927	57.747	85.455	1.00 16.56
MOTA	4329	C	CYS	Α	542	23.589	58.013	86.138	1.00 17.68
ATOM	4330	Ó	CYS			23.550	58.514	87.247	1.00 17.12
ATOM	4331	СВ	CYS			25.159	58.811	84.353	1.00 16.15
ATOM	4332	SG	CYS			26.884	58.903	83.797	1.00 18.89
MOTA	4333	N			543	22.485	57.696	85.448	1.00 15.90
MOTA	4334	CA	ILE			21.158	57.935	85.991	1.00 15.89
ATOM	4335	C	ILE			20.912	57.085	87.207	1.00 19.52
ATOM	4336	0	ILE			20.450.		88.248	1.00 14.90
MOTA	4337	CB	ILE			20.089	57.759	84.922	1.00 16.53
MOTA	4338	CG1				20.267	58.837	83.862	1.00 16.25
MOTA	4339	CG2				18.719	57.890	85.524	1.00 13.95
MOTA	4340		ILE			20.224	60.275	84.423	1.00 23.20
ATOM	4341	N	GLN			21.265	55.846	87.062	1.00 16.81
MOTA	4342	CA	GLN			21.083	54.915	88.140	1.00 16.91
MOTA	4343	С	GLN	Α	544	21.919	55.264	89.338	1.00 21.44
MOTA	4344	0	GLN	Α	544	21.560	54.872	90.464	1.00 17.71
MOTA	4345	CB	GLN	Α	544	21.329	53.469	87.676	1.00 17.14
MOTA	4346	CG	GLN	Α	544	20.245	53.073	86.660	1.00 16.46
ATOM	4347	CD	GLN	A	544	20.353	51.658	86.156	1.00 18.46
MOTA	4348	OE1	GLN	Α	544	19.958	51.363	85.017	1.00 29.64
MOTA	4349	NE2	GLN	А	544	20.821	50.768	87.006	1.00 14.23
ATOM	4350	N	SER	Α	545	23.022	56.011	89.083	1.00 16.96
MOTA	4351	CA	SER	A	545	23.920	56.419	90.172	1.00 16.35
ATOM	4352	С	SER	Α	545	23.576	57.773	90.757	1.00 21.69
ATOM	4353	0	SER	Α	545	24.314	58.320	91.571	1.00 20.97
MOTA	4354	CB	SER	Α	545	25.389	56.331	89.822	1.00 14.78
MOTA	4355	OG	SER	Α	545	25.645	54.989	89.461	1.00 16.47
MOTA	4356	N	LYS	Α	546	22.445	58.295	90.299	1.00 19.83
ATOM	4357	CA	LYS	А	546	21.919	59.553	90.748	1.00 18.17
ATOM	4358	C	LYS			22.682	60.775	90.346	1.00 20.74
ATOM	4359	0	LYS			22.744	61.705	91.136	1.00 20.74
ATOM	4360	CB	LYS			21.757	59.578	92.245	1.00 17.98
ATOM	4361	CG	LYS			21.192	58.279	92.761	1.00 19.40
ATOM	4362	CD	LYS			19.811	57.972	92.190	1.00 24.16
ATOM	4363	CE	LYS			19.182	56.724	92.840	1.00 30.41
ATOM	4364	NZ	LYS			17.911	56.281	92.237	1.00 21.29
ATOM	4365	N	TRP			23.227	60.817	89.147	1.00 16.41
ATOM	4366	CA	TRP			23.944	61.999	88.742	1.00 15.28
MOTA	4367	C	TRP			23.027	62.921	88.034	1.00 20.17
	4368	0	TRP			22.649	62.672	86.908	1.00 20.03
ATOM			TRP					87.854	1.00 20.03
ATOM	4369	CB				25.133	61.647		
MOTA	4370	CG	TRP			26.127	62.755	87.670	1.00 15.61
MOTA	4371		TRP			26.146	63.957	88.330	1.00 18.93
ATOM	4372		TRP			27.249	62.756	86.796	1.00 14.82
ATOM	4373		TRP			27.232	64.678	87.930	1.00 18.02
ATOM	4374		TRP			27.923	63.965	86.989	1.00 18.89
MOTA	4375		TRP			27.763	61.827	85.888	1.00 18.21
ATOM	4376		TRP			29.068	64.290	86.254	1.00 19.21
ATOM	4377		TRP			28.903	62.124	85.188	1.00 20.09
ATOM	4378	CH2	TRP	A	547	29.553	63.343	85.365	1.00 20.78

ATOM	4379	N	GLU	Α	548	22.658	64.011	88.682	1.00 16.	10
MOTA	4380	CA			548	21.761	64.914	88.029	1.00 17.	
ATOM	4381	С			548	22.257	65.492	86.730	1.00 19.	
ATOM	4382	0			548	21.456	65.804	85.870	1.00 19.	
ATOM	4383	СВ			548	21.247	66.016	88.969	1.00 19.	
ATOM	4384	CG			548	20.555	65.419	90.229	1.00 24.	
ATOM	4385	CD			548	20.077	66.445	91.243	1.00 33.	
ATOM	4386		GLU		=	19.441	67.440	90.965	1.00 43.	
ATOM	4387		GLU			20.393	66.129	92.465	1.00 43.	
ATOM	4388	N			549	23.555	65.667	86.569	1.00 16.	
ATOM	4389	CA			549	24.054	66.258	85.351	1.00 14.	
ATOM	4390	C			549	23.736	65.449	84.132	1.00 14.	
ATOM	4391	o			549	23.663	65.937	82.985	1.00 18.	
ATOM	4392	СВ	ASP			25.554	66.515	85.439	1.00 15.	
ATOM	4393	CG			549	25.809	67.504	86.537	1.00 13.	
ATOM	4394		ASP			25.557	68.672	86.421	1.00 31.	
ATOM	4395		ASP			26.188	66.966	87.658	1.00 56.	
MOTA	4396	N			550	23.531	64.199	84.392	1.00 35.	
ATOM	4397	CA			550	23.243		83.304		
ATOM		C			550	21.793	63.296		1.00 16.	
ATOM	4398	0					63.312	82.827	1.00 22.	
ATOM	4399 4400	CB	ALA		550	21.496	62.708	81.787	1.00 22. 1.00 15.	
ATOM		N			551	23.681	61.866 63.965	83.678		
ATOM	4401 4402	CA	ILE			20.885		83.563 83.178	1.00 17. 1.00 17.	
ATOM		CA				19.468	63.990	81.787		
	4403				551	19.205	64.533		1.00 19.	
ATOM	4404	0			551 551	18.489	63.951	80.967	1.00 19.	
ATOM ATOM	4405	CB	ILE			18.660	64.767	84.195	1.00 20.	
ATOM	4406 4407	CG2	ILE			18.688 17.234	64.024 65.035	85.537 83.688	1.00 20. 1.00 17.	
ATOM	4408		ILE			18.004	64.753	86.709	1.00 17.	
MOTA	4409	N	PRO			19.786	65.669	81.492	1.00 22.	
ATOM	4410	CA	PRO			19.587	66.261	80.192	1.00 18.	
ATOM	4411	C	PRO			20.131	65.378	79.089	1.00 10.	
ATOM	4412	0	PRO			19.542	65.280	78.001	1.00 19.	
ATOM	4413	CB	PRO			20.313	67.600	80.184	1.00 19.	
ATOM	4414	CG	PRO			21.074	67.684	81.493	1.00 25.	
ATOM	4415	CD	PRO			20.636	66.508	82.349	1.00 20.	
ATOM	4416	N	LEU			21.255	64.732	79.344	1.00 25.	
ATOM	4417	CA	LEU			21.827	63.866	78.302	1.00 16.	
ATOM	4418	C	LEU			20.953	62.634	78.024	1.00 22.	
ATOM	4419	0	LEU			20.787	62.169	76.889	1.00 21.	
ATOM	4420	СВ	TEA			23.235	63.408	78.700	1.00 16.	
ATOM	4421	CG	LEU			24.171	64.557	79.088	1.00 22.	
MOTA	4422		LEU			25.563	63.989	79.402	1.00 20.	
ATOM	4423		LEU			24.288	65.558	77.934	1.00 24.	
ATOM	4424	N	ALA			20.407	62.088	79.094	1.00 19.	
ATOM	4425	CA	ALA			19.586	60.907	78.982	1.00 15.	
ATOM	4426	C	ALA				61.247		1.00 18.	
ATOM	4427	0	ALA			17.822	60.504	77.457	1.00 18.	
ATOM	4428	СВ	ALA			19.372	60.252	80.325	1.00 13.	
ATOM	4429	N	LEU			17.711	62.384	78.695	1.00 14.	
ATOM	4430	CA	LEU			16.450	62.765	78.083	1.00 16.	
ATOM	4431	C	LEU			16.624	63.002	76.596	1.00 21.	
ATOM	4432	ō	LEU			15.757	62.691	75.774	1.00 19.	
ATOM	4433	СВ	LEU			15.895	64.065	78.654	1.00 16.	
ATOM	4434	CG	LEU			15.266	63.935	80.034	1.00 25.	
ATOM	4435		LEU				65.355	80.626	1.00 25.	
ATOM	4436		LEU			13.931	63.190	79.901	1.00 26.	

ATOM	4437	N	LYS	A 556	17.770	63.597	76.263	1.00 19.69
ATOM	4438	CA		A 556	18.092	63.918	74.886	1.00 17.75
ATOM	4439	C.		A 556	18.260	62.667	74.065	1.00 20.15
MOTA	4440	0		A 556	17.727	62.531	72.962	1.00 20.20
ATOM	4441	CB		A 556	19.343	64.773	74.847	1.00 21.25
MOTA	4442	CG		A 556	19.518	65.514	73.537	1.00 57.55
MOTA	4443	CD		A 556	20.912	65.351	72.936	1.00 78.14
MOTA	4444	CE	LYS	A 556	21.873	66.491	73.247	1.00 85.39
MOTA	4445	NZ	LYS	A 556	22.965	66.584	72.261	1.00 90.20
ATOM	4446	N	MET	A 557	19.011	61.732	74.607	1.00 16.39
MOTA	4447	CA	MET	A 557	19.241	60.514	73.863	1.00 16.19
ATOM	4448	С	MET	A 557	17.948	59.731	73.605	1.00 22.82
MOTA	4449	0	MET	A 557	17.714	59.142	72.523	1.00 19.87
ATOM	4450	СВ		A 557	20.286	59.635	74.589	1.00 17.35
MOTA	4451	CG		A 557	20.489	58.320	73.829	1.00 20.22
MOTA	4452	SD		A 557	21.933	57.357	74.325	1.00 22.67
ATOM	4453	CE		A 557	21.962	56.107	73.009	1.00 16.66
		N		A 558	17.110	59.724	74.644	1.00 18.95
ATOM	4454						74.607	
ATOM	4455	CA		A 558	15.857	59.013		1.00 20.49
ATOM	4456	C		A 558	14.856	59.525	73.592	1.00 27.56
ATOM	4457	0		A 558	14.019	58.768	73.100	1.00 25.54
MOTA	4458	CB		A 558	15.223	58.968	75.988	1.00 19.57
ATOM	4459	N	THR	A 559	14.933	60.811	73.295	1.00 22.11
MOTA	4460	CA	THR	A 559	13.967	61.381	72.407	1.00 20.16
MOTA	4461	C	THR	A 559	14.539	61.680	71.057	1.00 22.76
MOTA	4462	0	THR	A 559	13.797	61.814	70.094	1.00 24.26
ATOM	4463	CB	THR	A 559	13.369	62.652	73.069	1.00 24.38
MOTA	4464	OG1	THR	A 559	14.413	63.571	73.345	1.00 22.44
MOTA	4465	CG2	THR	A 559	12.691	62.323	74.399	1.00 20.52
ATOM	4466	N		A 560	15.844	61.818	70.974	1.00 20.87
ATOM	4467	ÇA		A 560	16.484	62.130	69.690	1.00 22.00
ATOM	4468	C		A 560	16.577	60.919	68.736	1.00 24.16
ATOM	4469	0		A 560	16.808	61.067	67.544	1.00 21.97
ATOM	4470	СВ		A 560	17.886	62.698	69.862	1.00 24.33
ATOM	4471	CG		A 560	17.972	64.085	70.540	1.00 45.69
ATOM	4472	CD		A 560	19.325	64.716	70.282	1.00 59.21
MOTA	4473	OE1		A 560	20.368	64.080	70.224	1.00 76.40
MOTA	4474	OE2		A 560	19.242	66.006	70.150	1.00 50.76
MOTA		N		A 561		59.733	69.302	1.00 18.19
	4475				16.443			
ATOM	4476	CA		A 561	16.435	58.488	68.551	
ATOM	4477	C		A 561	15.316	57.658	69.172	1.00 24.31
MOTA	4478	0		A 561	14.881	57.985	70.297	1.00 21.89
MOTA	4479	CB		A 561	17.796	57.762	68.447	1.00 21.24
MOTA	4480	CG		A 561	18.427	57.414	69.817	1.00 20.65
MOTA	4481	CD		A 561	17.659	56.319	70.483	1.00 24.21
ATOM	4482			A 561	17.249	56.444	71.613	1.00 22.02
ATOM	4483	NE2	GLN	A 561	17.435	55.247	69.768	1.00 14.46
MOTA	4484	N	GLY	A 562	14.810	56.634	68.460	1.00 18.50
ATOM	4485	CA	GLY	A 562	13.708	55.890	68.996	1.00 18.40
MOTA	4486	C	GLY	A 562	13.899	54.398	69.026	1.00 18.79
MOTA	4487	0	GLY	A 562	12.930	53.640	69.121	1.00 21.01
ATOM	4488	N		A 563	15.143	53.969	68.898	1.00 16.62
ATOM	4489	CA		A 563	15.420	52.558	68.958	1.00 16.35
ATOM	4490	C		A 563		. 52.117	70.373	1.00 20.36
ATOM					15.467	52.617	71.384	1.00 16.28
	4491	0	ARG	A bbs				
ATOM	4491 4492	O CB		A 563				
ATOM	4492	CB	ARG	A 563	16.912	52.339	68.690	1.00 12.16
ATOM ATOM ATOM			ARG ARG					

ATOM	4495	NE	ARG			19.313	49.407	68.387	1.00 18.90
MOTA	4496	CZ	ARG	Α	563	20.573	49.140	68.134	1.00 24.90
MOTA	4497	NH1	ARG	Α	563	21.436	50.117	67.850	1.00 21.86
MOTA	4498	NH2	ARG	A	563	20.970	47.875	68.121	1.00 25.10
ATOM	4499	N	MET	A	564	13.983	51.212	70.448	1.00 18.13
MOTA	4500	CA	MET	Α	564	13.425	50.773	71.729	1.00 17.97
MOTA	4501	С	MET	A	564	14.436	50.274	72.756	1.00 21.65
ATOM	4502	ō	MET			14.291	50.503	73.958	1.00 19.02
ATOM	4503	СВ	MET			12.231	49.809	71.540	1.00 18.77
			MET			11.120		70.779	1.00 22.52
ATOM	4504	CG					50.498		
ATOM	4505	SD	MET			9.651	49.485	70.814	1.00 30.74
ATOM	4506	CE	MET			10.140	48.213	69.638	1.00 26.15
ATOM	4507	N	LYS			15.446	49.560	72.248	1.00 18.83
ATOM	4508	CA	LYS	Α	565	16.540	49.011	73.032	1.00 19.08
ATOM	4509	C	LYS	A	565	17.141	50.110	73.924	1.00 18.89
MOTA	4510	0	LYS	A	565	17.592	49.852	75.027	1.00 16.93
ATOM	4511	CB	LYS	A	565	17.595	48.485	72.063	1.00 15.54
MOTA	4512	CG	LYS	Α	565	18.769	47.873	72.740	1.00 20.37
MOTA	4513	CD	LYS	Α	5 <b>65</b>	19.871	47.486	71.768	1.00 19.32
ATOM	4514	CE	LYS	A	565	20.892	46.604	72.452	1.00 27.76
ATOM	4515	NZ	LYS	Α	565	22.112	46.360	71.670	1.00 21.11
ATOM	4516	N	PHE			17.142	51.345	73.423	1.00 14.76
ATOM	4517	CA	PHE			17.708	52.462	74.159	1.00 13.39
ATOM	4518	C	PHE			16.651	53.323	74.834	1.00 17.12
ATOM	4519	0	PHE			16.733	53.674	76.007	1.00 14.88
ATOM	4520	CB	PHE			18.580	53.378	73.266	1.00 12.33
MOTA	4521	CG	PHE			19.692	52.683	72.484	1.00 14.16
ATOM	4522	CD1				20.411	51.604	73.016	1.00 15.94
ATOM	4523	CD2	PHE			20.015	53.131	71.193	1.00 16.01
ATOM	4524		PHE			21.421	50.974	72.277	1.00 15.47
MOTA	4525	CE2				21.018	52.522	70.431	1.00 14.85
MOTA	4526	CZ	PHE			21.713	51.444	70.991	1.00 15.39
ATOM	4527	N	THR			15.683	53.708	74.040	1.00 16.88
MOTA	4528	CA	THR			14.608	54.584	74.493	1.00 15.59
ATOM	4529	C	THR	Α	567	13.824	54.079	75.697	1.00 17.49
ATOM	4530	0	THR	Α	567	13.596	54.845	76.653	1.00 17.50
ATOM	4531	CB	THR	A	567	13.683	54.960	73.329	1.00 18.44
ATOM	4532	0 <b>G</b> 1	THR	Α	567	14.397	55.788	72.420	1.00 17.49
MOTA	4533	CG2	THR	Α	567	12.423	55.652	73.866	1.00 20.99
ATOM	4534	N	ARG	A	568	13.411	52.800	75.655	1.00 14.94
ATOM	4535	CA	ARG	A.	568	12.639	52.235	76.761	1.00 15.43
MOTA	4536	C	ARG	A	568	13.335	52.286	78.121	1.00 18.16
ATOM	4537	0	ARG			12.789	52.796	79.084	1.00 16.87
MOTA	4538	CB	ARG	A	568	12.071	50.875	76.423	1.00 13.94
MOTA	4539	CG	ARG	Α	568	11.026	51.000	75.302	1.00 11.32
ATOM	4540	CD	ARG			10.386	49.656	74.991	1.00 14.79
ATOM	4541	NE	ARG			9.659	49.172	76.147	1.00 18.40
ATOM	4542	CZ	ARG			9.166	47.960	76.287	1.00 25.32
ATOM	4543		ARG			9.322	47.012	75.354	1.00 16.84
ATOM	4544		ARG			8.496	47.696	77.410	1.00 16.63
ATOM	4545	NAZ N	PRO			14.548	51.776	78.168	1.00 14.13
									1.00 14.13
ATOM	4546	CA	PRO			15.334	51.744	79.400	
ATOM	4547	C	PRO			15.749	53.092	79.904	1.00 18.71
ATOM	4548	0	PRO			15.827	53.337	81.125	1.00 17.63
ATOM	4549	CB	PRO			16.576	50.883	79.101	1.00 19.20
MOTA	4550	CG	PRO			16.246	50.089	77.834	1.00 19.00
ATOM	4551	CD	PRO			15.150	50.887	77.122	1.00 15.84
MOTA	4552	N	LEU	A	570	16.001	53.996	78.973	1.00 16.41

N TOM	4553	CI3	T 1317		F70	16 270	EE 25E	70 303	1 00 17 76
ATOM	4553	CA			570	16.379	55.355	79.382	1.00 17.76
MOTA	4554	C	LEU			15.192	56.062	80.084	1.00 22.35
ATOM	4555	0	LEU	A	570	15.339	56.681	81.150	1.00 20.52
ATOM	4556	CB	<b>LEU</b>	Α	570	16.876	56.202	78.185	1.00 17.74
ATOM	4557	CG	LEU	A	570	18.296	55.843	77.759	1.00 20.79
ATOM	4558		LEU			18.664	56.566	76.470	1.00 18.50
ATOM	4559	CD2				19.279	56.172	78.884	1.00 20.34
MOTA	4560	N	PHE	A	571	14.005	55.963	79.462	1.00 17.16
ATOM	4561	CA	PHE	Α	571	12.826	56.555	80.047	1.00 17.72
ATOM	4562	С	PHE	Α	571	12.554	55.878	81.375	1.00 19.54
ATOM	4563	0	PHE	Α	571	12.169	56.500	82.372	1.00 24.27
ATOM	4564	СВ	PHB			11.594	56.425	79.152	1.00 18.46
ATOM	4565	CG	PHE			11.415		78.282	1.00 18.32
							57.641		
MOTA	4566	CD1				11.028	58.863	78.832	1.00 16.11
ATOM	4567	CD2	PHE			11.600	57.569	76.902	1.00 18.39
ATOM	4568	CE1	PHE	A	571	10.842	59.978	78.024	1.00 17.51
MOTA	4569	CE2	PHE	Α	571	11.422	58.679	76.075	1.00 20.05
ATOM	4570	CZ	PHE	Α	571	11.027	59.888	76.644	1.00 19.54
ATOM	4571	N	LYS			12.776	54.599	81.388	1.00 13.24
ATOM	4572	CA	LYS			12.546	53.877	82.604	1.00 17.24
ATOM	4573	C	LYS			13.501	54.286	83.726	1.00 22.30
ATOM	4574	0	LYS			13.093	54.481	84.887	1.00 21.20
ATOM	4575	CB	LYS	Α	572	12.453	52.388	82.395	1.00 19.92
ATOM	4576	CG	LYS	Α	572	11.041	51.827	82.560	1.00 39.47
ATOM	4577	CD	LYS	Α	572	10.969	50.322	82.245	1.00 59.94
ATOM	4578	CE	LYS	Α	572	10.997	49.992	80.743	1.00 81.81
MOTA	4579	NZ	LYS			11.621	48.696	80.395	1.00 84.56
ATOM	4580	N	ASP			14.765	54.436	83.393	1.00 16.20
ATOM	4581	CA	ASP			15.705	54.847	84.435	1.00 15.22
ATOM	4582	C	ASP			15.383	56.235	84.891	1.00 19.06
MOTA	4583	0	ASP	A	573	15.417	56.504	86.077	1.00 18.49
MOTA	4584	CB	ASP	Α	573	17.178	54.824	83.992	1.00 15.52
MOTA	4585	CG	ASP	Α	573	17.694	53.409	83.853	1.00 24.76
MOTA	4586	OD1	ASP	Α	573	17.057	52.435	84.197	1.00 25.70
MOTA	4587	OD2	ASP	Α	573	18.888	53.321	83.312	1.00 28.57
ATOM	4588	N	LEU			15.092	57.114	83.921	1.00 15.30
ATOM	4589	CA	LEU			14.779	58.489	84.243	1.00 17.34
MOTA	4590	C	LEU			13.530	58.595	85.127	1.00 26.84
ATOM	4591	0	LEU			13.410	59.473	86.004	1.00 25.00
MOTA	4592	CB	LEU			14.608	59.351	82.977	1.00 17.58
ATOM	4593	CG	LEU	A	574	15.900	59.592	82.190	1.00 22.57
ATOM	4594	CD1	LEU	A	574	15.486	60.046	80.797	1.00 21.18
MOTA	4595	CD2	LEU	Α	574	16.728	60.721	82.822	1.00 19.82
MOTA	4596	N	ALA			12.585	57.681	84.914	1.00 21.02
ATOM	4597	CA	ALA			11.372	57.702	85.706	1.00 20.85
ATOM	4598	C	ALA			11.629	57.263	87.153	1.00 26.51
MOTA	4599	0	ALA			10.984	57.699	88.094	1.00 26.29
MOTA	4600	CB	ALA			10.281	56.868	85.028	1.00 20.37
ATOM	4601	N	ALA			12.588	56.369	87.330	1.00 22.53
MOTA	4602	CA	ALA	Α	576	12.943	55.823	88.633	1.00 20.07
MOTA	4603	C	ALA	Α	576	13.819	56.734	89.456	1.00 25.99
ATOM	4604	0	ALA			14.057	56.473	90.625	1.00 25.87
ATOM	4605	СВ	ALA			13.702	54.547	88.427	1.00 20.99
ATOM	4606	N	PHE			14.322	57.780	88.812	1.00 22.37
ATOM	4607	CA	PHE			15.190	58.748	89.447	1.00 18.54
ATOM	4608	C	PHE			14.308	59.899	89.930	1.00 24.27
MOTA	4609	0	PHE			13.634	60.584	89.140	1.00 22.66
MOTA	4610	CB	PHE	Α	577	16.330	59.182	88.468	1.00 17.20

ATOM	4611	CG	PHE	A	57 <b>7</b>	17.388	60.135	89.029	1.00	20.29
MOTA	4612	CD1	PHE	A	577	17.608	60.272	90.405	1.00	21.38
ATOM	4613		PHE			18.181	60.895	88.160	1.00	22.30
ATOM	4614	CE1	PHE	Α	577	18.591	61.145	90.888	1.00	22.36
ATOM	4615		PHE			19.169	61.769	88.622		21.90
ATOM	4616	CZ	PHE			19.364	61.899	89.998		19.38
ATOM	4617	N	ASP			14.288	60.104	91.245		22.86
ATOM	4618	CA	ASP			13.434	61.134	91.791		25.52
ATOM	4619	C	ASP			13.561	62.456	91.107		27.85
ATOM	4620	ō	ASP			12.570	63.076	90.708		30.77
MOTA	4621	CB	ASP			13.476	61.245	93.327		33.08
ATOM	4622	CG	ASP			14.786	61.757	93.883		55.02
ATOM	4623		ASP			15.756	62.050	93.182		53.04
ATOM	4624		ASP			14.750	61.865	95.202		63.74
ATOM	4625	N	LYS			14.750	62.870	90.966		22.71
ATOM	4626	CA	LYS			15.127	64.115	90.359		20.47
ATOM		C	LYS			14.602	64.319	88.957		28.20
	4627		LYS				65.451	88.583		31.58
ATOM	4628	O				14.298				
ATOM	4629	CB	LYS			16.617	64.350	90.417		22.01
MOTA	4630	CG	LYS			17.095	64.370	91.843		35.26
ATOM	4631	CD	LYS			17.107	65.791	92.377		60.65
ATOM	4632	CE	LYS			16.489	65.928	93.762		72.01
ATOM	4633	NZ	LYS			16.747	64.783	94.655		60.98
ATOM	4634	N	SER			14.521	63.273	88.144		21.08
ATOM	4635	CA	SER			14.055	63.477	86.749		20.19
ATOM	4636	C	SER			12.692	62.922	86.402		23.42
ATOM	4637	0	SER			12.270	63.056	85.257		23.98
ATOM	4638	CB	SER			14.999	62.794	85.775		17.94
MOTA	4639	OG	SER			15.249	61.485	86.256		16.46
ATOM	4640	N	HIS			12.041	62.278	87.369		20.59
MOTA	4641	CA	HIS			10.745	61.645	87.151		20.64
ATOM	4642	C	HIS			9.685	62.510	86.446		23,45
MOTA	4643	O	HIS HIS			9.171	62.178	85.387		22.42
ATOM	4644	CB CG	HIS			10.236	61.004	88.450 88.269		28.87
ATOM	4645		HIS			8.875	60.458	88.508		32.80
ATOM	4646		HIS			7.755	61.242 59.235	87.851		31.70
MOTA MOTA	4647		HIS			8.459 6.689	60.483	88.239		32.67
ATOM	4648 4649		HIS			7.081	59.276	87.843		33.25
MOTA	4650	N	ASP			9.364	63.646	87.038		19.72
ATOM	4651	CA	ASP			8.382	64.520	86.470		21.79
ATOM	4652	CA	ASP			8.739	64.940	85.060		27.16
	4653	0	ASP			7.897	64.998	84.144		28.34
MOTA MOTA	4654	CB	ASP			8.193	65.739	87.407		22.66
ATOM	4655	CG	ASP			7.617	65.295	88.714		35.28
	4656		ASP			7.257	64.154	88.903		42.01
MOTA MOTA	4657		ASP			7.558	66.227	89.631		44.04
ATOM		N	GLN			10.014	65.255	84.896		23.25
	4658	CA	GLM			10.489	65.680	83.602		22.94
ATOM	4659							82.561		26.53
ATOM	4660 4661	C 0	GLN GLN			10.398	64.574 64.823	81.401		26.28
ATOM	4661		GLN			10.081	66.186	83.684		24.39
ATOM	4662 4663	CB CG	GLM			11.924 12.338	66.800	82.345		34.12
ATOM ATOM		CD	GLN				67.633	82.479		48.91
	4664		GLN			13.593		83.428		36.93
MOTA	4665					14.375	67.475			46.01
ATOM	4666		GLN			13.780	68.531	81.530 82.975		21.00
ATOM	4667 4668	n Ca	ALA ALA			10.709	63.349 62.208	82.975		19.24
ATOM	4668	LA	мпи	A	204	10.651	02.200	02.070	1.00	13.44

ATOM	4669	С	<b>Δ7.</b> Δ	7.	584	9.226	62.047	81.565	1.00 23.67
	4670	0			584	8.954	61.865	80.369	1.00 22.58
ATOM									
MOTA	4671	CB			584	11.065	60.917	82.774	1.00 18.73
MOTA	4672	N			585	8.294	62.113	82.511	1.00 21.42
MOTA	4673	CA	VAL	A	585	6.890	61.970	82.136	1.00 21.62
MOTA	4674	С	VAL	Α	585	6.440	63.073	81.179	1.00 25.77
MOTA	4675	0	VAL	Α	585	5.878	62.863	80.080	1.00 23.19
ATOM	4676	СВ	VAL	Α	585	6.011	61.832	83.364	1.00 22.75
ATOM	4677	CG1	VAL	Α	585	4.531	61.886	82.991	1.00 21.75
ATOM	4678	CG2			585	6.333	60.513	84.039	1.00 20.15
ATOM	4679	N			586	6.736	64.281	81.604	1.00 22.25
MOTA	4680	CA			586	6.389	65.399	80.796	1.00 22.25
		C			586			79.403	
ATOM	4681					7.011	65.340		1.00 21.49
ATOM	4682	0			586	6.392	65.724	78.438	1.00 20.15
MOTA	4683	CB			586	6.643	66.694	81.550	1.00 21.80
MOTA	4684	CG	ARG	Α	586	6.769	67.894	80.646	1.00 40.65
ATOM	4685	CD	ARG	A	586	6.961	69.211	81.412	1.00 46.26
MOTA	4686	NE	ARG	Α	586	8.104	69.262	82.340	1.00 66.08
ATOM	4687	CZ	ARG	Α	586	8.125	68.752	83.595	1.00 77.90
MOTA	4688	NH1	ARG	Α	586	7.093	68.104	84.137	1.00 76.53
ATOM	4689	NH2	ARG	Α	586	9.213	68.893	84.340	1.00 37.12
ATOM	4690	N			587	8.239	64.868	79.288	1.00 18.33
MOTA	4691	CA			587	8.919	64.768	78.009	1.00 18.54
ATOM	4692	C			587	8.231	63.731	77.124	1.00 24.37
	4693	0			587	8,076	63.892	75.912	1.00 22.43
MOTA					587	10.392	64.386	78.216	1.00 25.90
ATOM	4694	CB							
MOTA	4695		THR			11.009	65.370	79.004	1.00 24.10
ATOM	4696	CG2			587	11.145	64.257	76.897	1.00 24.64
MOTA	4697	N			588	7.810	62.641	77.732	1.00 20.51
ATOM	4698	CA			588	7.137	61.633	76.948	1.00 21.29
MOTA	4699	C	TYR	A	588	5.805	62.178	76.423	1.00 25.70
ATOM	4700	0	TYR	A	588	5.426	62.029	75.270	1.00 26.35
MOTA	4701	CB	TYR	Α	588	6.880	60.388	77.801	1.00 21.73
MOTA	4702	CG	TYR	A	588	5.843	59.484	77.194	1.00 21.63
MOTA	4703	CD1	TYR	A	588	6.155	58.679	76.098	1.00 23.34
MOTA	4704	CD2	TYR	Α	588	4.542	59.442	77.699	1.00 21.46
MOTA	4705	CE1	TYR	Α	588	5.200	57.838	75.519	1.00 22.02
MOTA	4706	CE2	TYR	Α	588	3.569	58.612	77.138	1.00 19.76
MOTA	4707	CZ	TYR	A	588	3.912	57.809	76.051	1.00 22.20
MOTA	4708	OH			588	2.980	57.006	75.486	1.00 24.63
ATOM	4709	N			589	5.070	62.811	77.313	1.00 21.16
ATOM	4710	CA			589	3.791	63.379	76.959	1.00 18.99
ATOM	4711	C	GLN			3.932	64.331	75.796	1.00 23.96
ATOM	4712	ō			589	3.147	64.342	74.861	1.00 25.39
		CB.	GLN			3.159	64.084	78.178	1.00 18.67
ATOM	4713								1.00 18.97
ATOM	4714	CG			589	2.565	63.058	79.167	
ATOM	4715	CD			589	1.533	62.109	78.536	1.00 35.01
ATOM	4716		GLN			1.474	61.882	77.318	1.00 46.83
ATOM	4717		GLN			0.695	61.539	79.370	1.00 34.55
ATOM	4718	N			590	4.964	65.137	75.866	1.00 22.44
MOTA	4719	CA	GLU			5.220	66.108	74.832	1.00 22.90
MOTA	4720	C	GLU	A	590	5.634	65.492	73.541	1.00 27.13
ATOM	4721	0	GLU	A	590	5.393	66.064	72.491	1.00 25.81
ATOM	4722	CB	GLU	A	590	6.215	67.205	75.232	1.00 24.05
ATOM	4723	CG	GLU	A	590	5.752	67.882	76.538	1.00 41.64
ATOM	4724	CD	GLU			6.719	68.923	77.003	1.00 55.37
MOTA	4725		GLU			7.910	68.887	76.720	1.00 49.14
MOTA	4726		GLU			6.139	69.861	77.721	1.00 43.77
						0.103			<b></b>

ATOM	4727	N	HIS	Α	591	6.236	64.331	73.621	1.00	20.51
ATOM	4728	CA			591	6.705	63.689	72.427		20.30
ATOM	4729	C.			591	5.844	62.634	71.880		20.71
								70.730		
ATOM	4730	0			591	6.020	62.301			23.08
ATOM	4731	CB			591	8.021	62.980	72.735		22.13
MOTA	4732	CG			591	9.134	63.910	72.585		27.37
MOTA	4733		HIS			9.350	64.905	73.514	1.00	32.24
MOTA	4734	CD2	HIS	A	591	10.050	64.036	71.610	1.00	30.23
MOTA	4735	CE1	HIS	Α	591	10.394	65.614	73.093	1.00	30.35
ATOM	4736	NE2	HIS	A	591	10.834	65.114	71.950	1.00	30.36
ATOM	4737	N	LYS	A	592	4.981	62.058	72.690	1.00	19.93
ATOM	4738	CA	LYS	Α	592	4.222	60.927	72.217		20.77
ATOM	4739	С			592	3.601	60.982	70.861	1.00	28.72
MOTA	4740	0			592	3.593	59.977	70.155		27.45
ATOM	4741	CB			592	3.385	60.231	73.220		20.94
ATOM	4742	CG			592	2.269	61.119	73.659		26.07
	4743	CD			592	1.524	60.461	74.795		37.26
ATOM										
MOTA	4744	CE			592	0.074	60.869	74.892		41.30
ATOM	4745	NZ			592	-0.431	60.656	76.253		36.28
ATOM	4746	N			593	3.071	62.155	70.502		25,89
MOTA	4747	CA			593	2.425	62.314	69.218		21.81
ATOM	4748	C			593	3.318	62.160	68.009		25.37
MOTA	4749	0	ALA	A	593	2.861	61.805	66.945	1.00	25.18
MOTA	4750	CB	ALA	A	593	1.750	63.647	69.131	1.00	21.84
MOTA	4751	N	SER	A	594	4.580	62.455	68.168	1.00	23.89
MOTA	4752	CA	SER	Α	594	5.511	62.388	67.071	1.00	24.88
ATOM	4753	С	SER	A	594	6.352	61.123	67.101	1.00	24.51
ATOM	4754	0	SER	A	594	7.234	60.930	66.268	1.00	22.77
ATOM	4755	CB	SER	A	594	6.416	63.613	67.130	1.00	29.32
ATOM	4756	OG	SER	Α	594	7.414	63.407	68.127	1.00	41.59
MOTA	4757	И	MET	A	595	6.086	60.268	68.086	1.00	18.86
ATOM	4758	CA			595	6.833	59.020	68.227	1.00	17.56
ATOM	4759	C			595	6.287	57.889	67.337		25.09
ATOM	4760	0			595	5.191	57.954	66.773		25.50
ATOM	4761	CB	MET			6.757	58.535	69.691		17.79
ATOM	4762	CG			595	7.773	59.190	70.601		20.14
	4763	SD	MET			7.484	58.807	72.362		26.49
ATOM					595					
ATOM	4764	CE				8.038	57.091	72.509		25.07
ATOM	4765	N	HIS			7.034	56.805	67.252		19.17
ATOM	4766	CA	HIS			6.579	55.642	66.529		17.82
ATOM	4767	C	HIS			5.439	55.071	67.368		21.26
ATOM	4768	0			596	5.507	55.088	68.584		19.86
ATOM	4769	CB	HIS			7.725	54.631	66.359		17.98
MOTA	4770	CG			596	7.296	53.435	65.598		21.21
ATOM	4771	ND1	HIS	Α	596	7.650	53.262	64.263	1.00	23.53
MOTA	4772	CD2	HIS	A	596	6.533	52.381	65.973	1.00	21.57
ATOM	4773	CE1	HIS	A	596	7.107	52.127	63.835	1.00	21.62
ATOM	4774	NE2	HIS	A	596	6.424	51.576	64.838	1.00	23.64
MOTA	4775	N	PRO	Α	597	4.376	54.594	66.708	1.00	22.03
MOTA	4776	CA	PRO	Α	597	3.204	54.055	67.346	1.00	21.29
ATOM	4777	C			597	3.446	52.997	68.383		20.96
ATOM	4778	0			597	2.877	53.012	69.466		19.67
ATOM	4779	CB			597	2.335	53.455	66.245		23.54
ATOM	4780	CG	PRO			2.979	53.792	64.915		29.04
ATOM	4781	CD	PRO			4.235	54.587	65.227		23.85
ATOM	4782	N	VAL				52.031	68.050		18.54
ATOM	4783	CA			598		50.962	69.019		18.98
ATOM	4784	С	VAL	A	コプロ	5.343	51.457	70.212	1.00	19.53

ATOM	4785	0	VAL A	598	5.006	51.250	71.377	1.00 19.84
ATOM	4786	CB	VAL A	598	5.183	49.780	68.314	1.00 23.28
ATOM	4787	CG1	VAL A	598	5.682	48.758	69.335	1.00 21.86
MOTA	4788	CG2	VAL A	598	4.147	49.166	67.349	1.00 21.78
MOTA	4789	N	THR A	599	6.428	52.147	69.888	1.00 18.22
ATOM	4790	CA	THR A	599	7.297	52.711	70.898	1.00 19.79
ATOM	4791	C	THR A	599	6.470	53.600	71.805	1.00 22.38
ATOM	4792	0	THR A	599	6.579	53.587	73.020	1.00 20.86
ATOM	4793	CB	THR A	599	8.373	53.567	70.223	1.00 26.72
АТОМ	4794	OG1	THR A	599	9.045	52.824	69.204	1.00 25.41

ATOM	4795	CG2	THR	А	599	9.358	54.074	71.281	1.00 22.33
ATOM	4796	N	ALA			5.624	54.399	71.191	1.00 19.36
ATOM	4797	CA	ALA			4.787	55.270	71.986	1.00 19.90
MOTA	4798	C	ALA			3.925	54.468	72.927	1.00 22.41
	4799	0	ALA					74.119	1.00 22.41
ATOM						3.777	54.778		
ATOM	4800	CB	ALA			3.947	56.186	71.118	1.00 19.84
ATOM	4801	N	MET			3.354	53.399	72.411	1.00 19.95
MOTA	4802	CA	MET			2.524	52.589	73.302	1.00 20.17
MOTA	4803	С	MET	A	601	3.320	51.981	74.446	1.00 21.18
ATOM	4804	0	MET	А	601	2.884	51.994	75.589	1.00 19.90
MOTA	4805	CB	MET	A	601	1.791	51.451	72.582	1.00 21.67
MOTA	4806	CG	MET	A	601	1.011	50.612	73.557	1.00 23.15
MOTA	4807	SD	MET	Α	601	1.925	49.137	74.147	1.00 28.58
MOTA	4808	CE	MET	A	601	2.227	48.228	72.603	1.00 23.92
ATOM	4809	N	LEU	A	602	4.490	51.422	74.122	1.00 16.35
ATOM	4810	CA	LEU			5.338	50.773	75.139	1.00 17.71
ATOM	4811	C	LEU			5.921	51.708	76.223	1.00 18.68
ATOM	4812	0	LEU			5.963	51.760	77.395	1.00 21.69
ATOM	4813	CB	LEU			6.445	49.876	74.542	1.00 16.62
MOTA	4814	CG	LEU			5.913	48.704	73.746	1.00 22.17
ATOM	4815		LEU			7.103	48.028	73.072	1.00 25.00
MOTA	4816		LEU			5.239	47.720	74.697	1.00 25.74
MOTA	4817	И	JAV			6.401	52.884	75.827	1.00 16.30
MOTA	4818	CA	VAL			6.962	53.796	76.815	1.00 14.99
MOTA	4819	C	VAL	A	603	5.875	54.264	77.771	1.00 19.20
MOTA	4820	0	VAL	A	603	6.120	54.420	78.958	1.00 21.24
ATOM	4821	CB	VAL	A	603	7.667	54.947	76.154	1.00 18.27
MOTA	4822	CG1	VAL	A	603	8.124	55.941	77.213	1.00 18.14
ATOM	4823	CG2	VAL	A	603	8.876	54.419	75.402	1.00 17.65
ATOM	4824	N	GLY	А	604	4.656	54.452	77.237	1.00 17.40
ATOM	4825	CA	GLY	A	604	3.518	54.878	78.035	1.00 17.23
ATOM	4826	C	GLY			3.190	53.796	79.054	1.00 22.30
ATOM	4827	0	GLY			2.836	54.046	80.209	1.00 23.93
MOTA	4828	N	LYS			3.294	52.552	78.639	1.00 19.16
MOTA	4829	CA	LYS			3.032	51.458	79.565	1.00 22.93
MOTA	4830	C	LYS			4.123	51.454	80.596	1.00 23.85
MOTA	4831	0	LYS			3.857	51.412	81.765	1.00 29.61
ATOM	4832	СВ	LYS			2.973	50.084	78.900	1.00 28.91
ATOM		CG	LYS				49.284	79.286	1.00 20.31
	4833					1.739			
ATOM	4834	CD	LYS			1.614	47.973	78.520	1.00 86.36
ATOM	4835	CE	LYS			0.474	47.077	78.998	1.00100.00
ATOM	4836	NZ	LYS	_		0.926	45.803	79.584	1.00 96.31
ATOM	4837	N	ASP			5.360	51.533	80.136	1.00 18.74
MOTA	4838	CA	ASP			6.512	51.567	81.020	1.00 16.75
MOTA	4839	C	ASP			6.417	52.687	82.021	1.00 21.50
MOTA	4840	0	ASP			6.744	52.500	83.171	1.00 23.69
MOTA	4841	CB	ASP			7.828	51.737	80.241	1.00 18.62
MOTA	4842	CG.	ASP	A	606	8.194	50.551	79.363	1.00 33.79
MOTA	4843	OD1	ASP	A	606	7.867	49.391	79.604	1.00 33.52
ATOM	4844	OD2	ASP	A	606	8.916	50.897	78.323	1.00 27.00
ATOM	4845	N	LEU	A	607	5.964	53.846	81.570	1.00 19.12
ATOM	4846	CA	LEU	Α	607	5.846	55.031	82.403	1.00 21.90
ATOM	4847	C	LEU			4.550	55.057	83.169	1.00 28.88
ATOM	4848	Ō	LEU			4.336	55.922	84.027	1.00 26.52
ATOM	4849	СВ	LEU			5.939	56.303	81.538	1.00 22.98
ATOM	4850	CG	LEU			7.314	56.996	81.567	1.00 28.58
ATOM	4851		LEU			8.412	56.004	81.849	1.00 28.38
MOTA			LEU			7.582		80.274	1.00 31.86
ALUM	4852	CDZ	ಗಳ	м	00/	,.562	57.761	00.2/4	1.00 43.04

ATOM	4853	N	LYS	A	608	3.673	54.121	82.823	1.00 25.73
ATOM	4854	CA			608	2.402	54.050	83.483	1.00 27.14
ATOM	4855	C			608	1.517	55.274	83.248	1.00 36.18
		0			608	0.808	55.735	84.155	1.00 36.45
MOTA	4856								
ATOM	4857	CB			608	2.619	53.872	84.965	1.00 28.04
ATOM	4858	CG			608	3.024	52.458	85.321	1.00 34.92
MOTA	4859	CD	LYS	Α	608	3.455	52.351	86.775	1.00 62.54
MOTA	4860	CE	LYS	A	608	4.872	52.865	87.017	1.00100.00
ATOM	4861	NZ	LYS	A	608	5.308	52.782	88.423	1.00100.00
ATOM	4862	N	VAL	Α	609	1.538	55.817	82.037	1.00 33.96
ATOM	4863	CA	VAL	Α	609	0.700	56.960	81.756	1.00 35.62
ATOM	4864	C			609	-0.596	56.539	81.068	1.00 50.35
ATOM	4865	ō			609	-0.570	55.732	80.140	1.00 50.27
ATOM	4866	СВ			609	1.399	58.066	81.015	1.00 37.98
ATOM	4867		VAL			2.835	58.174	81.464	1.00 36.77
					609		57.776	79.539	1.00 40.19
ATOM	4868	CG2				1.344			
ATOM	4869	N 			610	-1.725	57.084	81.569	1.00 53.33
ATOM	4870	CA			610	-3.086	56.822	81.095	1.00 89.47
ATOM	4871	C			610	-3.734	55.681	81.880	1.00100.00
ATOM	4872	0	ASP	A	610	-4.010	55.789	83.081	1.00 67.46
MOTA	4873	CB	ASP	Α	610	-3.181	56.608	79.571	1.00 91.20
MOTA	4874	CG	ASP	A	610	-3.263	57.902	78.800	1.00 99.31
ATOM	4875	OD1	ASP	A	610	-4.214	58.659	78.852	1.00100.00
ATOM	4876	OD2	ASP	Α	610	-2.208	58.121	78.053	1.00 99.03
ATOM	4877	ZN2+	ZN	Z	1	16.867	38.938	64.588	1.00 19.85
ATOM	4878	YB3+	YB	Y	1	42.592	51.139	99.562	1.00 19.75
ATOM		YB3+	YB	Y	2	-13.987	57.035	52.274	0.50 30.89
ATOM	-		YB	Y	3	-10.598	57.976	52.424	0.50 22.65
ATOM	4881	CG	IMD		1	25.977	42.326	80.640	1.00 21.27
ATOM	4882			I	ī	25.984	42.381	79.258	1.00 26.76
ATOM								81.012	1.00 20.70
	4883	CD2	IMD		1	27.243	42.000		
ATOM	4884	CE1		I	1	27.198	42.109	78.814	1.00 23.26
ATOM	4885	NE2		I	1	27.978	41.865	79.858	1.00 31.16
ATOM	4886	CB	ACE		1	13.682	11.710	69.377	1.00100.00
ATOM	4887	CG	ACE		1	12.730	12.944	69.296	1.00100.00
MOTA	4888		ACE		1	11.957	12.700	70.111	1.00 28.08
MOTA	4889	OD1	ACE	С	1	13.221	14.170	69.327	1.00 29.42
MOTA	4890	C4	HA1	Н	1	7.929	39.787	68.124	1.00 33.98
MOTA	4891	C3	HA1	H	1	7.915	38.456	67.710	1.00 34.29
ATOM	4892	C2	HA1	H	1	7.854	37.393	68.601	1.00 27.23
MOTA	4893	C1	HA1	Н	1	7.750	37.660	69.963	1.00 31.46
MOTA	4894	C6	HA1	H	1	7.662	38.984	70.398	1.00 31.55
ATOM	4895	C5	HA1	н	1	7.795	40.040	69.485	1.00 28.16
ATOM	4896	C7	HA1		1	7.970	40.861	67.070	1.00 38.51
ATOM	4897	01	HA1		1	8.598	41.977	67.467	1.00 34.62
ATOM	4898	C8	HA1		1	9.788	42.184	66.789	1.00 34.01
ATOM	4899		HA1		1	9.900	43.135	65.770	1.00 31.19
ATOM	4900		HA1		1	11.134	43.342	65.144	1.00 27.52
			HA1		1	12.274	42.616	65.518	1.00 27.32
MOTA	4901								
MOTA	4902		HA1		1	12.138	41.670	66.533	1.00 33.70
ATOM	4903	C9	HA1		1	10.912	41.443	67.158	1.00 34.67
MOTA	4904		HA1		1	13.650	42.797	64.863	1.00 37.54
ATOM	4905		HA1		1	14.111	41.617	63.980	1.00 44.21
ATOM	4906	N1	HA1		1	13.186	41.331	62.884	1.00 47.74
MOTA	4907	C16	HA1	H	1	15.558	41.715	63.487	1.00 45.17
ATOM	4908	N2	HA1	H	1	16.415	41.692	64.674	1.00 44.66
MOTA	4909	02	HA1	H	1	16.381	40.583	65.539	1.00 40.60
ATOM	4910	C17	HA1	Н	1	17.338	42.768	65.058	1.00 37.18

MOTA	4911	03	HA1	H	1	17.468	43.810	64.424	1 00	32.19
MOTA	4912		HAl		1	18.102	42.561	66.330		41.82
MOTA			HAI		1	17.414	43.354	67.436		
	4913									55.81
MOTA	4914		HA1		1	18.370	43.767	68.541		63.54
ATOM	4915		HA1		1	17.851	44.929	69.366		62.49
ATOM	4916	C22	HA1	H	1	17.521	46.129	68.497	1.00	56.55
ATOM	4917	04	HA1	Н	1	16.627	46.104	67.664	1.00	64.73
ATOM	4918	05	HA1	H	1	18.077	47.221	68.942	1.00	39.37
ATOM	4919	0	HOH	W	1	23.566	34.022	75.376	1.00	12.30
MOTA	4920	0	нон		2	13.388	27.777	78.688	1.00	13.34
MOTA	4921	0	нон		3	25.835	18.549	79.662		27.10
MOTA	4922	ō	нон		4	25.597	20.037	56.101		31.91
	4923	0					54.449	68.009		
ATOM			HOH		5	10.677				18.65
ATOM	4924	0	HOH		6	-10.132	46.969	60.385		32.14
MOTA	4925	0	HOH		7	2.593	37.637	61.650		21.00
ATOM	4926	0	нон	W	8	-7.181	40.515	62.968	1.00	27.33
ATOM	4927	0	HOH	W	9	43.698	44.858	76.466	1.00	45.00
MOTA	4928	0	HOH	W	10	15.570	28.918	62.416	1.00	21.48
ATOM	4929	0	нон	W	11	-1.589	36.832	71.268	1.00	30.40
MOTA	4930	0	HOH	W	12	~2.055	28.558	60.781	1.00	22.31
MOTA	4931	0	нон		13	20.676	44.343	79.098		32.97
ATOM	4932	0	нон		14	3.431	26.421	58.090		45.38
ATOM	4933	0	нон		15	-4.614	50.837	59.260		25.79
										17.59
ATOM	4934	0	HOH		16	36.272	36.591	76.038		
ATOM	4935	0	HOH		17	32.654	39.309	77.187		23.80
ATOM	4936	0	HOH		18	17.065	55.043	87.500		25.70
MOTA	4937	0	нон		19	40.120		100.891	1.00	17.97
ATOM	4938	0	HOH	W	20	24.948	56.731	93.762	1.00	23.67
ATOM	4939	0	HOH	W	21	5.307	31.463	78.439	1.00	25.94
ATOM	4940	0	нон	W	22	29.601	35.642	82.806	1.00	25.64
MOTA	4941	0	HOH	W	23	42.458	58.650	95.509	1.00	26.81
ATOM	4942	0	нон	W	24	41.450	41.107	78.272	1.00	24.09
MOTA	4943	0	нон		25	22.573	45.711	84.050	1.00	19.66
ATOM	4944	0	нон		26	6.739	45.508	66.460		24.65
ATOM	4945	ō	нон		27	17.394	39.743	52.082		23.53
								82.019		16.68
ATOM	4946	0	HOH		28	24.544	45.460			
ATOM	4947	0	нон		29	24.772	68.201	81.705		33.19
ATOM	4948	0	HOH		30	1.837	33.333	67.260		21.31
ATOM	4949	0	нон	W	31	4.415	69.786	58.410	1.00	35.00
ATOM	4950	0	HOH	W	32	7.455	46.261	57.394	1.00	25.67
ATOM	4951	0	HOH	W	33	-9.584	46.880	63.997	1.00	24.93
MOTA	4952	0	HOH	W	34	-3.024	25.330	60.767	1.00	42.66
ATOM	4953	0	HOH	W	35	17.847	39.318	55.530	1.00	23.09
MOTA	4954	0	HOH	W	36	23.296	70.064	87.984	1.00	42.74
MOTA	4955	0	нон		37	32.919	53.636	68.454	1.00	26.30
MOTA	4956	0	нон		38	29.879	45.644	50.852		30.86
MOTA	4957	Ö	нон		39	10.807	31.399	52.856		22.94
	•		нон				28.804	81.757		27.83
ATOM	4958	0			40	31.341				
ATOM	4959	0	нон		41	19.787	60.946	66.660		34.61
MOTA	4960	0	HOH		42	5.475	60.634	63.442		23.64
ATOM	4961	0	HOH		43	37.820	49.977	69.049		34.63
ATOM	4962	0	HOH		44	8.776	45.288	71.439		24.05
ATOM	4963	0	HOH	W	45	45.482	56.302	77.061	1.00	55.80
ATOM	4964	0	HOH	W	46	33.235	31.270	62.597	1.00	31.95
MOTA	4965	0	нон	W	47	-1.953	55.133	57.155	1.00	21.83
ATOM	4966	0	нон		48	26.604	54.881	67.253		20.30
MOTA	4967	0	нон		49	14.297	66.865	85.395		31.63
ATOM	4968	0	нон		50	7.263	47.979	65.596		37.56
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MOTA	4969	0	HOH		51	37.920	36.114	73.995	1.00 14.86
MOTA	4970	0	HOH		52	28.377	48.590	61.079	1.00 37.27
MOTA	4971	0	нон	W	53	2.116	28.905	53.079	1.00 42.56
MOTA	4972	0	HOH	W	54	35.521	22.458	64.953	1.00 26.17
MOTA	4973	0	HOH	W	55	7.851	19.910	84.778	1.00 22.04
ATOM	4974	0	HOH	W	56	-14.352	49.917	56.200	1.00 34.62
MOTA	4975	0	HOH	W	57	26.924	39.331	68.855	1.00 24.29
MOTA	4976	0	нон	W	58	16.076	27.261	80.879	1.00 21.38
ATOM	4977	0	нон	W	59	29.747	44.590	66.215	1.00 37.34
ATOM	4978	0	нон		60	29.210	23.547	77.093	1.00 31.98
ATOM	4979	ō	нон		61	28.910	50.667	63.027	1.00 22.20
MOTA	4980	ō	нон		62	20.042	19.974	84.146	1.00 31.02
ATOM	4981	ō	нон		63	20.576	35.333	45.069	1.00 26.25
MOTA	4982	o	нон		64	-0.215	29.800	72.342	1.00 33.17
ATOM	4983	o	нон		65	-1.089	45.685	73.734	1.00 33.17
ATOM	4984	0	HOH		66	0.438	52.886	76.077	1.00 32.51
MOTA	4985	0	нон		67	14.167	74.815	49.997	1.00 17.05
ATOM	4986	0	HOH		68	-4.646	34.746	72.149	1.00 26.96
MOTA	4987	0	HOH		69	-0.608	33.321	77.691	1.00 28.42
MOTA	4988	0	HOH		70	44.174	49.671	78.015	1.00 44.09
MOTA	4989	0	HOH	W	71	18.342	56.463	89.617	1.00 24.87
MOTA	4990	0	HOH	W	72	-3.402	50.274	64.069	1.00 32.32
MOTA	4991	0	HOH	W	73	35.472	42.694	55.658	1.00 29.12
MOTA	4992	0	HOH	W	74	39.633	49.627	92.786	1.00 23.74
MOTA	4993	0	HOH	W	75	23.814	44.857	73.613	1.00 36.27
MOTA	4994	0	HOH	W	76	4.137	65.690	43.494	1.00 41.73
ATOM	4995	0	HOH	W	77	-2.873	36.499	53.879	1.00 32.19
ATOM	4996	0	нон	W	78	19.723	36.789	86.029	1.00 23.01
ATOM	4997	0	нон	W	79	32.756	42.684	86.988	1.00 26.34
MOTA	4998	0	нон		80	-13.494	53.592	58.883	1.00 48.04
ATOM	4999	0	нон		81	10.287	35.426	76.025	1.00 42.73
ATOM	5000	0	нон		82	11.794	38.320	43.226	1.00 38.16
ATOM	5001	ō	нон		83	12.911	64.532	53.870	1.00 32.51
ATOM	5002	ō	нон		84	23.737	48.333	68.074	1.00 20.34
ATOM	5003	0	нон		85	10.259	47.114	58.559	1.00 25.59
ATOM	5004	ō	нон		86	10.648	53.408	86.123	1.00 28.02
ATOM	5005	o	нон		87	6.095	34.678	88.868	1.00 27.11
ATOM	5006	ō	нон		88	10.406	35.822	89.126	1.00 37.02
ATOM	5007	Ö	нон		89	45.214	48.270	89.083	1.00 41.53
ATOM	5008	0	HOH		90	1.875	28.252	68.827	1.00 32.79
ATOM	5009	0	нон		91	20.183	28.258	51.122	1.00 37.70
	•		HOH		92	39.933		79.130	1.00 29.50
ATOM	5010 5011	0			93	10.589	60.917 68.582	87.108	1.00 23.30
ATOM	5011	0	HOH		94	20.727	42.599	67.261	1.00 63.87
MOTA		0	HOH						1.00 03.87
ATOM	5013	0	HOH		95	33.765	20.334	64.966	
ATOM	5014	0	HOH		96	34.389		64.440	1.00 31.49
ATOM	5015	0	нон		97		25.534	57.889	1.00 35.42
MOTA	5016	0	HOH		98	6.604	51.604	61.117	1.00 22.24
MOTA	5017	0	HOH		99	35.194	48.072	98.344	1.00 43.21
MOTA	5018	0	HOH			44.877	53.167	86.540	1.00 32.11
MOTA	5019	0	HOH			6.655	71.717	84.957	1.00 49.55
MOTA	5020	0	HOH			21.563	48.098	86.750	1.00 25.99
MOTA	5021	0	HOH	W	103	3.651	42.638	66.989	1.00 20.94
ATOM	5022	0	HOH	W	104	9.258	28.493	88.481	1.00 24.87
MOTA	5023	0	HOH	W	105	1.984	35.090	56.227	1.00 25.06
MOTA	5024	0	HOH	W	106	22.599	62.536	74.820	1.00 21.67
MOTA	5025	0	HOH	W	107	8.606	44.166	75.301	1.00 27.58
ATOM	5026	0	HOH	W	108	27.757	40.396	73.057	1.00 36.06

MOTA	5027	0	HOH W	109	37.414	53.648	66.810	1.00 62.05
ATOM	5028	0	HOH W	110	-9.983	46.517		1.00 52.15
ATOM	5029	0	HOH W		28.275	66.451	78.187	1.00 20.97
ATOM	5030	ō	HOH W		0.299	38.957	40.503	1.00 50.56
MOTA	5031	0	HOH W		5.444	44.057	39.458	1.00 50.38
ATOM	5032	0	HOH W		30.644	32.062	49.915	1.00 36.21
ATOM	5033	0	HOH W		18.252	26.342	50.525	1.00 45.23
ATOM	5034	0	HOH W		13.526	15.084	61.080	1.00 37.70
ATOM	5035	0	HOH W	117	-13.979	18.969	42.299	1.00 56.22
MOTA	5036	0	HOH W	118	26.776	25.413	84.339	1.00 35.73
MOTA	5037	0	HOH W	119	11.930	58.269	71.061	1.00 23.92
MOTA	5038	0	HOH W	120	34.912	67.869	86.385	1.00 24.32
ATOM	5039	0	HOH W	121	24.502	71.580	83.464	1.00 30.05
ATOM	5040	0	HOH W	122	25.720	67.144	90.575	1.00 33.20
ATOM	5041	0	HOH W		27.913	32.926	85.600	1.00 40.23
ATOM	5042	o	HOH W		34.782	68.339	71.280	1.00 36.93
ATOM	5043	ō	HOH W		15.535	41.733	77.570	1.00 43.41
ATOM	5044	o	HOH W		39.295	44.865	92.155	1.00 38.08
ATOM	5045	0	HOH W			38.435		
					34.644		88.608	1.00 43.36
ATOM	5046	0	HOH W		16.902	68.175	82.059	1.00 33.39
ATOM	5047	0	HOH W		23.092	69.396	79.614	1.00 43.52
ATOM	5048	0	HOH W		38.423	66.837	74.075	1.00 44.21
ATOM	5049	0	HOH W		20.725	15.554	56.723	1.00 58.73
ATOM	5050	0	HOH W	132	10.791	73.362	50.162	1.00 53.71
ATOM	5051	0	HOH W	133	34.794	62.523	92.372	1.00 44.50
ATOM	5052	0	HOH W	134	44.478	50.279	84.427	1.00 43.68
ATOM	5053	0	HOH W	135	34.311	29.805	80.713	1.00 45.96
ATOM	5054	0	HOH W	136	40.841	39.740	89.975	1.00 60.88
MOTA	5055	0	HOH W	137	25.356	40.542	42.066	1.00 41.02
ATOM	5056	0	HOH W	138	28.438	44.085	75.926	1.00 41.72
ATOM	5057	0	HOH W	139	25.711	38.832	88.780	1.00 65.21
ATOM	5058	0	HOH W		11.923	76.777	49.321	1.00 58.57
ATOM	5059	0	нон w		24.266	34.539	87.344	1.00 50.29
MOTA	5060	ō	HOH W		16.030	9.532	72.041	1.00 48.71
ATOM	5061	ō	HOH W		-3.177	67.341	56.141	1.00 42.73
ATOM	5062	o	HOH W		50.825		100.142	1.00 42.75
MOTA	5063	0	HOH W		0.820			
						71.358	71.084	1.00 40.87
ATOM	5064	0	HOH W		-17.608	36.729	42.417	1.00 45.50
ATOM	5065	0	HOH W		28.308	19.679	78.841	1.00 36.05
ATOM	5066	0	HOH W		2.463	58.104	67.862	1.00 44.11
ATOM	5067	0	HOH M		10.592	23.631	48.575	1.00 63.18
ATOM	5068	0	HOH W		6.654	22.341	57.393	1.00 46.55
MOTA	5069	0	HOH W		-2.964	30.104	61.638	1.00 51.03
MOTA	5070	0	HOH W		9.679	66.053		1.00 67.73
ATOM	5071	0	HOH W	153	9.376	26.793	46.927	1.00 53.94
ATOM	5072	0	HOH W	154	28.743	57.505	48.125	1.00 49.99
MOTA	5073	0	HOH W	155	13.766	52.942	39.760	1.00 47.92
ATOM	5074	0	HOH W	156	12.406	65.783	93.413	1.00 53.53
ATOM	5075	0	HOH W	157	0.180	56.418	64.866	1.00 57.49
MOTA	5076	0	HOH W	158	23.495	20.294	54.004	1.00 45.54
ATOM	5077	0	HOH W		38.423	52.807		1.00 54.48
ATOM	5078	ō	HOH W		25.613	66.532	74.583	1.00 55.93
ATOM	5079	ō	HOH W		10.187	71.181	49.801	1.00 54.22
ATOM	5080	ō	HOH W		38.339	46.321	99.093	1.00 54.22
ATOM	5081	0	HOH W		15.552	55.295	41.947	1.00 49.87
ATOM		0						
	5082		HOH W		8.318	42.904		1.00 58.23
MOTA	5083	0	HOH W		11.599	17.563		1.00 49.23
ATOM	5084	0	HOH W	100	43.868	48.771	91.573	1.00 46.30

MOTA	5085	0	HOH W 167	-7.109	31.913	64.267	1.00 60.17
MOTA	5086	0	HOH W 168	13.620	57.052	40.950	1.00 50.59
MOTA	5087	0	HOH W 169	24.100	13.750	57.699	1.00 57.30
MOTA	5088	0	HOH W 170	-1.060	50.178	39.555	1.00 53.44
ATOM	5089	0	HOH W 171	28.136	38.840	82.951	1.00 65.23
MOTA	5090	0	HOH W 172	33.383	46.065	62.179	1.00 54.17
MOTA	5091	0	HOH W 173	32.676	64.388	94.464	1.00 63.25
MOTA	5092	0	HOH W 174	28.895	34.922	43.046	1.00 65.00
ATOM	5093	0	HOH W 175	1.150	50.642	82.686	1.00 50.19
MOTA	5094	0	HOH W 176	38.269	37.461	84.426	1.00 55.97
MOTA	5095	0	HOH W 177	28.133	15.115	62.115	1.00 54.46
MOTA	5096	0	HOH W 178	-21.180	27.797	43.644	1.00 41.51
ATOM	5097	0	HOH W 179	37.216	39.040	89.229	1.00 51.67
MOTA	5098	0	HOH W 180	-16.439	50.762	42.943	1.00 52.31
ATOM	5099	0	HOH W 181	27.532	70.756	92.817	1.00 51.38
MOTA	5100	0	HOH W 182	17.249	54.147	94.044	1.00 60.50
MOTA	5101	0	HOH W 183	30.255	42.249	74.632	1.00 59.08
ATOM	5102	0	HOH W 184	7.869	71.095	47.756	1.00 47.99
ATOM	5103	o	HOH W 185	-3.927	35.976	39.455	1.00 54.08
ATOM	5104	0	HOH W 186	17.648	48.041	85.644	1.00 48.63
ATOM	5105	ō	HOH W 187	16.843	63.121	61.640	1.00 55.70
ATOM	5106	ō	HOH W 188	32.678	67.498	91.570	1.00 46.01
ATOM	5107	ō	HOH W 189	26.777	67.291	92.968	1.00 62.50
MOTA	5108	ō	HOH W 190	43.626	47.465	93.713	1.00 48.48
ATOM	5109	ō	HOH W 191	19.866	63.522	93.923	1.00 49.85
ATOM	5110	ō	HOH W 192	31.772	43.653	64.750	1.00 61.07
ATOM	5111	ō	HOH W 193	15.157	75.463	53.328	1.00 32.84
ATOM	5112	ō	HOH W 194	34.792	45.584	97.991	1.00 58.67
ATOM	5113	ō	HOH W 195	37.064	21.576	67.060	1.00 54.68
MOTA	5114	ō	HOH W 196	30.070	14.758	70.646	1.00 51.43
MOTA	5115	0	HOH W 197	28.860	72.257	75.634	1.00 62.52
ATOM	5116	0	HOH W 198	8.471	19.419	57.691	1.00 57.63
MOTA	5117	0	HOH W 199	0.503	41.546	78.765	1.00 56.21
ATOM	5118	0	HOH W 200	50.521	54.089	79.412	1.00 51.01
MOTA	5119	0	HOH W 201	-0.543	52.686	81.009	1.00 46.93
MOTA	5120	0	HOH W 202	26.682	58.450	96.254	1.00 50.09
ATOM	5121	0	HOH W 203	17.549	42.811	71.646	1.00 57.91
MOTA	5122	0	HOH W 204	29.750	18.123	58.438	1.00 66.60
MOTA	5123	0	HOH W 205	22.570	40.343	42.345	1.00 59.88
MOTA	5124	0	HOH W 206	-13.013	21.974	59.037	1.00 67.74
MOTA	5125	0	HOH W 207	1.213	62.922	83.165	1.00 62.70
MOTA	5126	0	HOH W 208	3.178	70.030	60.833	1.00 48.41
ATOM	5127	0	HOH W 209	35,803	16.258	65.017	1.00 58.97
ATOM	5128	0	HOH W 210	46.693	53.513	105.644	1.00 53.44
MOTA	5129	0	HOH W 211	4.942	70.389	45.132	1.00 53.10
MOTA	5130	0	HOH W 212	37.457	25.190	67.060	1.00 63.53
MOTA	5131	0	HOH W 213	11.196	29.803	45.434	1.00 53.63
MOTA	5132	0	HOH W 214	26.923	61.460	54.700	1.00 69.19
MOTA	5133	0	HOH W 215	0.546	69.044	72.439	1.00 39.60
MOTA	5134	0	HOH W 216	-23.701	40.796	47.831	1.00 52.83
MOTA	5135	0	HOH W 217	12.204	39.839	90.814	1.00 47.33
MOTA	5136	0	HOH W 218	33.128	42.150	94.157	1.00 56.23
MOTA	5137	0	HOH W 219	49.923	57.382	98.346	1.00 58.39
MOTA	5138	0	HOH W 220	32.977	13.997	66.958	1.00 60.97
ATOM	5139	0	HOH W 221	20.874	69.427	54.701	1.00 55.56
ATOM	5140	0	HOH W 223	-19.866	36.630	55.598	1.00 56.17
MOTA	5141	0	HOH W 224	38.826	44.981	56.301	1.00 57.17
MOTA	5142	0	HOH W 225	18.003	44.053	79.512	1.00 56.10

ATOM	5143	0	HOH W 2	26 6.358	21.380	58.894	1.00 66.63
ATOM	5144	o	HOH W 2		15.953	82.008	1.00 60.35
MOTA	5145	ō	HOH W 2		45.061	58.589	1.00 60.74
MOTA	5146	0	HOH W 2		43.055	49.022	1.00 52.29
ATOM	5147	0	HOH W 2		59.399	61.998	1.00 45.48
ATOM	5148	0	HOH W 2		54.043	90.579	1.00 63.17
MOTA	5149	0	HOH W 2		63.225	91.375	1.00 63.27
MOTA	5150	0	HOH W 2		54.492	43.345	1.00 53.24
MOTA	5151	0	HOH W 2	34 25.867	54.044	96.258	1.00 59.57
MOTA	5152	0	HOH W 2		50.875	40.953	1.00 68.74
MOTA	5153	0	HOH W 2	36 -5.445	53.893	45.137	1.00 54.78
MOTA	5154	0	HOH W 2	37 17.844	70.747	82.442	1.00 63.13
MOTA	5155	0	HOH W 2	38 20.474	17.609	84.838	1.00 57.33
MOTA	5156	0	HOH W 2	39 25.472	69.148	91.574	1.00 49.69
MOTA	5157	0	HOH W 2		38.921	43.687	1.00 43.43
ATOM	5158	0	HOH W 2		39.236	69.351	1.00 51.35
ATOM	5159	ō	HOH W 2		39.591	69.499	1.00 52.14
		o	HOH W 2			72.041	1.00 63.17
MOTA	5160				68.348		
ATOM	5161	0	HOH W 2		47.070	57.295	1.00 67.21
ATOM	5162	0	HOH W 2		42.814	79.612	1.00 50.83
MOTA	5163	0	HOH W 2		71.752	81.603	1.00 57.85
ATOM	5164	0	HOH W 2		32.515	42.599	1.00 63.63
MOTA	5165	0	HOH W 2	48 15.427	30.206	95.160	1.00 66.30
MOTA	5166	0	HOH W 2	49 17.547	60.509	94.759	1.00 68.80
ATOM	5167	0	HOH W 2	50 -20.576	43.652	41.549	1.00 58.89
ATOM	5168	0	HOH W 2	51 26.697	43.654	74.283	1.00 50.83
ATOM	5169	0	HOH W 2	52 0.000	75.309	76.429	1.00 53.17
MOTA	5170	0	HOH W 2	53 -6.860	59.055	50.820	1.00 52.72
ATOM	5171	0	HOH W 2		76.292	86.992	1.00 57.00
ATOM	5172	0	HOH W 2		77.576	52.312	1.00 58.58
ATOM	5173	0	HOH W 2		22.878	57.690	1.00 56.89
ATOM	5174	ō	HOH W 2		46.362	42.752	1.00 58.41
ATOM	5175	Ö	HOH W 2		18.515	44.302	1.00 66.77
ATOM	5176	0	HOH W 2		44.854	67.260	1.00 67.33
ATOM	5177	0	HOH W 2		44.781	83.968	1.00 59.16
MOTA	5178	0	HOH W 2		59.910	97.629	1.00 57.01
MOTA	5179	0	HOH W 2		55.701	51.474	1.00 60.55
MOTA	5180	0	HOH W 2		33.217	67.706	1.00 51.41
ATOM	5181	0	HOH W 2		39.738	40.656	1.00 59.31
ATOM	5182	0	HOH W 2		27.197	69.252	1.00 57.45
MOTA	5183	0	HOH W 2		52.692	52.115	1.00 59.13
MOTA	5184	0	HOH W 2	67 12.588	76.023	54.027	1.00 63.98
MOTA	5185	0	HOH W 2	68 10.674	37.861	73.233	1.00 40.60
ATOM	5186	0	HOH W 2	69 33.884	20.777	73.836	1.00 67.25
ATOM	5187	0	HOH W 2	70 6.835	55.397	86.991	1.00 50.57
MOTA	5188	0	HOH W 2	71 23.599	60.716	61.680	1.00 53.57
ATOM	5189	0	HOH W 2	72 2.922	38.598	91.369	1.00 53.23
ATOM	5190	0	HOH W 2	73 -14.019	47.068	63.315	1.00 61.45
MOTA	5191	0	HOH W 2		48.114	63.698	1.00 53.89
MOTA	5192	0	HOH W 2		49.524	92.566	1.00 65.29
ATOM	5193	ŏ	HOH W 2		48.070	93.565	1.00 56.02
ATOM	5194	o	HOH W 2		54.855	93.165	1.00 52.88
ATOM	5195	0	HOH W 2		52.681	66.663	1.00 65.32
		0	HOH W 2			92.369	1.00 61.89
ATOM	5196				10.342		
ATOM	5197	0	HOH W 2		19.572	55.307	1.00 57.94
MOTA	5198	0	HOH W 2		25.353	54.224	1.00 65.34
MOTA	5199	0	HOH W 2		34.772	40.653	1.00 65.19
MOTA	5200	0	HOH W 2	84 37.089	40.886	51.834	1.00 60.43

ATOM	5201	0	HOH W	285	2.735	42.995	80.539	1.00 57.86
ATOM	5202	0	HOH W		19.059	69.848	56.498	1.00 56.48
	5202	0	HOH W		36.914	56.699	72.243	1.00 58.00
MOTA			HOH W			38.832	50.525	1.00 54.28
ATOM	5204	0			35.097			
ATOM	5205	0	нон м		33.943	40.245	49.022	1.00 68.42
MOTA	5206	0	HOH W		6.152	36.850	91.179	1.00 29.34
MOTA	5207	0	HOH W		1.210	46.408	69.753	1.00 38.48
MOTA	5208	0	HOH W	293	36.663	66.406	83.027	1.00 33.89
MOTA	5209	0	HOH W	294	25.382	33.180	85.450	1.00 30.72
MOTA	5210	0	HOH W	295	48.306	49.133	87.418	1.00 40.22
MOTA	5211	0	HOH W	296	14.557	46.216	72.037	1.00 30.76
MOTA	5212	0	HOH W	297	44.301	51.910	93.764	1.00 39.05
MOTA	5213	0	HOH W	298	18.556	45.259	82.564	1.00 36.72
MOTA	5214	0	HOH W	299	9.986	28.598	45.588	1.00 39.34
ATOM	5215	0	HOH W		13.993	19.347	83.731	1.00 37.90
MOTA	5216	ō	HOH W		9.259	17.561	61.577	1.00 41.15
ATOM	5217	0	HOH W		16.844	18.360	52.308	1.00 46.61
	5218	0	HOH W		38.428	39.782	90.580	1.00 44.37
ATOM			HOH W			39.838	87.332	1.00 44.21
MOTA	5219	0			32.776			
ATOM	5220	0	нон м		22.789	57.732	68.755	1.00 51.68
ATOM	5221	0	HOH W		44.043	48.212	96.482	1.00 37.36
MOTA	5222	0	HOH W		21.279	43.654	74.635	1.00 49.72
MOTA	5223	0	HOH W		38.221	36.657	87.583	1.00 38.29
MOTA	5224	0	HOH W	309	21.723	73.282	87.385	1.00 34.04
MOTA	5225	0	HOH W	310	8.168	76.237	56.157	1.00 39.31
MOTA	5226	0	HOH W	311	-2.729	38.458	40.852	1.00 41.02
ATOM	5227	0	HOH W	312	20.996	69.427	84.795	1.00 45.18
ATOM	5228	0	HOH W	313	35.296	17.312	67.460	1.00 38.26
ATOM	5229	0	HOH W	314	24.302	29.892	85.644	1.00 49.45
MOTA	5230	0	HOH W	315	4.052	59.432	64.567	1.00 34.47
ATOM	5231	0	HOH W		14.725	36.807	89.553	1.00 33.91
ATOM	5232	0	HOH W		7.686	31.868	42.750	1.00 40.32
ATOM	5233	ō	HOH W		39.969		103.431	1.00 41.02
ATOM	5234	o	нон w		18.713	58.281	59.231	1.00 43.03
ATOM	5235	o	HOH W		21.582	25.291	53.208	1.00 44.80
ATOM	5236	o	HOH W		17.652	14.233	77.724	1.00 45.13
ATOM	5237	ō	HOH W		22.090	36.433	86.993	1.00 42.48
		0	HOH W		26.563	15.758	79.414	1.00 56.46
MOTA	5238				21.935	20.097	82.429	1.00 35.42
MOTA	5239	0	HOH W					1.00 33.42
MOTA	5240	0	HOH W		25.721	69.631	83.521	
MOTA	5241	0	HOH W		-5.448	20.604	56.597	1.00 38.44
MOTA	5242	0	HOH W		15.730	48.094	46.732	1.00 48.34
MOTA	5243	0	HOH W		12.908	46.398	73.762	1.00 34.69
MOTA	5244	0	HOH W		18.153	15.593	82.086	1.00 51.74
MOTA	5245	0	HOH W		19.662	67.341	59.127	1.00 39.97
MOTA	5246	0	HOH W		26.523	11.736	64.469	1.00 52.53
MOTA	5247	0	HOH W	332	22.187	41.399	86.094	1.00 40.32
MOTA	5248	0	HOH W	333	10.740	62.699	65.206	1.00 43.24
MOTA	5249	0	HOH W	334	41.105	34.539	67.496	1.00 45.74
MOTA	5250	0	HOH W	335	-7.261	21.078	43.044	1.00 43.21
MOTA	5251	0	HOH W	336	21.378	39.371	70.588	1.00 40.11
ATOM	5252	0	HOH W		34.068	54.868	70.503	1.00 40.92
ATOM	5253	0	HOH W		36.807	53.592	71.204	1.00 42.71
ATOM	5254	ō	HOH W		35.802	60.257	72.242	1.00 55.10
ATOM	5255	ō	HOH W		26.326	16.958	57.093	1.00 51.55
ATOM	5256	ŏ	HOH W		-4.105	44.588	43.247	1.00 34.17
ATOM	5257	0	HOH W		3.059	70.581	75.133	1.00 44.28
		0					43.944	1.00 42.52
MOTA	5258	0	HOH W	2#3	16.235	45.375	マン・フェサ	1.00 42.32

ATOM	5259	0	HOH	W	344	16.842	68.765	79.662	1.00 36.62
MOTA	5260	0	нон	W	345	31.764	31.143	83.301	1.00 39.76
MOTA	5261	0	нон	W	346	-21.720	43.895	50.038	1.00 56.98
ATOM	5262	0	нон			17.485	62.993	50.436	1.00 35.10
ATOM	5263	ō	нон			39.499	40.948	88.883	1.00 33.45
ATOM	5264	Ō	нон			11.734	28.705	89.825	1.00 45.56
ATOM	5265	0	нон			20.754	54.796	95.357	1.00 43.50
MOTA	5266	0	HOH			4.838	65.330	69.568	1.00 33.41
MOTA	5267	0	нон			33.883	66.237	72.688	1.00 33.83
MOTA	5268	0	HOH			16.037	63.226	65.963	1.00 50.85
MOTA	5269	0	нон			1.209	32.211	69.349	1.00 45.93
MOTA	5270	0	HOH			25.516	49.158	94.608	1.00 47.62
MOTA	5271	0	HOH	W	356	34.387	23.584	75.231	1.00 41.51
MOTA	5272	0	HOH	W	357	15.835	59.854	57.321	1.00 32.92
MOTA	5273	0	HOH	W	358	30.989	22.782	58.631	1.00 48.50
MOTA	5274	0	нон	W	359	-0.131	41.666	76.726	1.00 37.81
ATOM	5275	0	нон	W	360	30.317	39.711	83.800	1.00 58.87
ATOM	5276	0	HOH	W	361	22.930	24.158	51.286	1.00 40.78
ATOM	5277	0	НОН			30.355	42.190	67.705	1.00 40.91
ATOM	5278	ō	нон			22.695	46.247	90.678	1.00 33.83
ATOM	5279	0	нон			-20.095	25.789	45.499	1.00 46.00
ATOM	5280	o	нон			37.366	40.766	55.105	1.00 50.47
									1.00 46.77
ATOM	5281	0	HOH			31.614	19.770	76.528	
ATOM	5282	0	HOH			28.619	21.148	76.426	1.00 45.17
MOTA	5283	0	НОН			20.788	46.785	81.907	1.00 40.07
MOTA	5284	0	HOH			19.067	59.674	60.682	1.00 52.39
MOTA	5285	0	HOH			17.251	57.498	44.041	1.00 42.11
ATOM	5286	0	HOH	W	371	22.814	55.956	95.276	1.00 38.36
MOTA	5287	0	нон			11.797	60.063	42.321	1.00 41.37
ATOM	5288	0	HOH	W	373	4.192	63.375	62.773	1.00 41.59
MOTA	5289	0	HOH	W	374	-15.434	22.581	44.545	1.00 61.31
ATOM	5290	0	HOH	W	375	39.636	37.500	68.055	1.00 34.01
ATOM	5291	0	HOH	W	376	22.288	40.161	68.751	1.00 47.41
ATOM	5292	0	HOH	W	377	-14.370	39.668	66.900	1.00 45.13
ATOM	5293	0	нон	W	378	29.957	64.249	94.360	1.00 53.97
MOTA	5294	0	HOH	W	379	16.644	14.303	57.098	1.00 53.71
MOTA	5295	0	HOH	W	380	28.540	69.064	76.673	1.00 48.14
ATOM	5296	0	нон	W	381	5.575	48.072	80.755	1.00 41.30
MOTA	5297	0	HOH	W	382	-3.209	37.330	44.030	1.00 38.14
ATOM	5298	0	HOH	W	383	10.772	71.014	58.445	1.00 52.05
ATOM	5299	0	нон	W	384	20.473	46.333	77.273	1.00 44.37
ATOM	5300	0	нон	W	385	25.473	45.291	93.863	1.00 39.80
ATOM	5301	o	нон			16.812	61.299	59.570	1.00 34.64
MOTA	5302	ō	HOH			37.014	51.364	61.433	1.00 56.70
ATOM	5303	ŏ	нон			12.204	59.709	63.330	1.00 41.06
ATOM	5304	Ö	нон			24.023	66.534	52.905	1.00 55.32
ATOM		0	нон			0.506	54.311	70.323	1.00 38.98
			нон			11.949	16.758	53.986	1.00 53.18
ATOM	5306	0							
MOTA	5307	0	HOH			37.416		101.784	1.00 38.65
ATOM	5308	0	HOH			46.378	52.835	83.600	1.00 50.43
MOTA	5309	0	НОН			24.103	26.795	86.273	1.00 49.03
ATOM	5310	0	HOH			27.075	52.383	96.106	1.00 57.28
MOTA	5311	0	HOH			36.006	34.016	54.586	1.00 44.84
MOTA	5312	0	нон			38.523	29.031	71.925	1.00 33.93
MOTA	5313	0	HOH	W	398	12.523	44.136	75.273	1.00 53.61
MOTA	5314	0	нон	W	399	15.735	61.114	45.742	1.00 44.69
MOTA	5315	0	нон	W	400	20.754	35.092	42.445	1.00 51.37
ATOM	5316	0	HOH	W	401	14.222	23.180	85.491	1.00 35.20

N TO M	E217	^	HOH M	402	20 051	42 052	E2 762	1 00 30 00
MOTA	5317	0	HOH W		-20.951	42.853	52.762	1.00 39.02
ATOM	5318	0	HOH W		6.053	28.199	51.239	1.00 65.04
MOTA	5319	0	HOH W	404	35.313	44.557	54.005	1.00 50.04
ATOM	5320	0	HOH W	405	-18.153	20.676	43.582	1.00 43.52
ATOM	5321	0	HOH W	406	28.895	14.049	64.120	1.00 43.99
ATOM	5322	0	HOH W		21.077	65.132	59.088	1.00 45.25
MOTA	5323	0	HOH W		25.918	65.162	56.853	1.00 55.28
ATOM	5324	0	HOH W	409	2.421	65.212	63.670	1.00 61.93
MOTA	5325	0	HOH W	410	-0.547	35.743	54.699	1.00 46.69
ATOM	5326	0	HOH W	411	-22.289	27.518	46.814	1.00 47.50
ATOM	5327	0	HOH W	412	24.607	7.260	70.646	1.00 36.92
ATOM	5328	0	HOH W	413	34.593	44.376	64.986	1.00 49.97
ATOM	5329	ō	нон w		34.413	34.797	52.195	1.00 48.85
MOTA	5330	0	HOH W		-4.740	52.565	44.026	1.00 44.22
MOTA	5331	0	HOH W		19.232	52.944	93.963	1.00 39.51
MOTA	5332	0	HOH W		27.621	46.196	69.991	1.00 42.91
MOTA	5333	0	HOH W	418	3.480	62.682	56.725	1.00 40.03
MOTA	5334	0	HOH W	419	1.599	67.083	71.072	1.00 36.73
MOTA	5335	0	HOH W		24.962	34.424	45.256	1.00 53.29
ATOM	5336	ō	нон w		16.185	47.345	82.105	1.00 47.82
							91.569	
ATOM	5337	0	HOH W		16.038	41.047		1.00 65.77
MOTA	5338	0	HOH W		29.831	56.603	59.633	1.00 57.12
MOTA	5339	0	HOH W	424	23.000	40.491	73.243	1.00 46.62
MOTA	5340	0	HOH W	425	36.125	35.327	85.790	1.00 44.47
MOTA	5341	0	HOH W	426	3.089	58.590	85.674	1.00 48.29
ATOM	5342	0	HOH W	427	-0.907	70.074	48.963	1.00 43.00
MOTA	5343	0	нон W	428	-11.044	52.085	60.685	1.00 56.36
ATOM	5344	ō	HOH W		23.496	7.025	68.752	1.00 43.76
	5345	0	HOH W		-5.598	43.223	41.100	1.00 45.62
ATOM								
ATOM	5346	0	HOH W		20.167	50.377	89.978	1.00 59.50
MOTA	5347	0	HOH W		-20.425	23.096	45.440	1.00 44.34
MOTA	5348	0	HOH W	433	9.260	76.289	58.173	1.00 45.95
MOTA	5349	0	HOH W	434	-11.917	29.670	59.131	1.00 43.37
ATOM	5350	0	HOH W	435	33.178	32.939	82.506	1.00 45.21
MOTA	5351	0	нон w	436	12.256	17.158	87.387	1.00 52.47
MOTA	5352	0	HOH W		13.785	47.874	75.233	1.00 42.67
ATOM	5353	ō	HOH W		23.499	28.449	84.993	1.00 49.95
ATOM	5354	0	HOH W		32.378	58.281	58.965	1.00 38.63
ATOM	5355	0	HOH W		16.415	52.385	87.735	1.00 45.19
MOTA	5356	0	HOH W		-4.177	56.799	49.770	1.00 38.37
MOTA	5357	0	HOH M	442	43.834	51.522	97.318	1.00 15.87
MOTA	5358	0	HOH W	443	40.609	50.537	98.000	1.00 13.87
MOTA	5359	0	HOH W	444	26.131	32.974	75.528	1.00 17.75
ATOM		•						
			HOH W	445	7.172		69.284	1.00 19.18
	5360	0	HOH W		7.172 36.875	22.314		1.00 19.18 1.00 15.68
ATOM	5360 5361	0	HOH W	446	36.875	22.314 66.145	79.032	1.00 15.68
MOTA MOTA	5360 5361 5362	0 0 0	нон w	446 447	36.875 12.570	22.314 66.145 36.470	79.032 59.739	1.00 15.68 1.00 22.25
MOTA MOTA MOTA	5360 5361 5362 5363	0 0 0	HOH W	446 447 448	36.875 12.570 3.629	22.314 66.145 36.470 36.729	79.032 59.739 59.008	1.00 15.68 1.00 22.25 1.00 24.63
MOTA MOTA MOTA	5360 5361 5362 5363 5364	0 0 0 0	HOH W HOH W	446 447 448 449	36.875 12.570 3.629 13.223	22.314 66.145 36.470 36.729 30.168	79.032 59.739 59.008 61.997	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63
MOTA MOTA MOTA	5360 5361 5362 5363	0 0 0	HOH W HOH W HOH W	446 447 448 449 450	36.875 12.570 3.629 13.223 42.538	22.314 66.145 36.470 36.729 30.168 52.950	79.032 59.739 59.008 61.997 90.812	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87
MOTA MOTA MOTA	5360 5361 5362 5363 5364	0 0 0 0	HOH W HOH W	446 447 448 449 450	36.875 12.570 3.629 13.223	22.314 66.145 36.470 36.729 30.168 52.950	79.032 59.739 59.008 61.997 90.812 101.288	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87 1.00 21.07
MOTA MOTA MOTA MOTA MOTA	5360 5361 5362 5363 5364 5365	0 0 0 0 0	HOH W HOH W HOH W	446 447 448 449 450 451	36.875 12.570 3.629 13.223 42.538	22.314 66.145 36.470 36.729 30.168 52.950	79.032 59.739 59.008 61.997 90.812	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87
MOTA MOTA MOTA MOTA MOTA	5360 5361 5362 5363 5364 5365 5366	0 0 0 0 0 0	HOH W HOH W HOH W HOH W	446 447 448 449 450 451 452	36.875 12.570 3.629 13.223 42.538 40.673	22.314 66.145 36.470 36.729 30.168 52.950 52.006	79.032 59.739 59.008 61.997 90.812 101.288	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87 1.00 21.07
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5360 5361 5362 5363 5364 5365 5366 5367 5368	0 0 0 0 0 0 0	HOH W HOH W HOH W HOH W HOH W	446 447 448 449 450 451 452 453	36.875 12.570 3.629 13.223 42.538 40.673 15.152	22.314 66.145 36.470 36.729 30.168 52.950 52.006 48.019 62.018	79.032 59.739 59.008 61.997 90.812 101.288 69.852 52.859	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87 1.00 21.07 1.00 20.74 1.00 25.04
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5360 5361 5362 5363 5364 5365 5366 5367 5368 5369	0 0 0 0 0 0 0 0	м нон w нон w нон w нон w нон w нон w нон w нон w	446 447 448 449 450 451 452 453	36.875 12.570 3.629 13.223 42.538 40.673 15.152 11.735 17.367	22.314 66.145 36.470 36.729 30.168 52.950 52.006 48.019 62.018 41.418	79.032 59.739 59.008 61.997 90.812 101.288 69.852 52.859 54.225	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87 1.00 21.07 1.00 20.74 1.00 25.04 1.00 26.89
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5360 5361 5362 5363 5364 5365 5366 5367 5368 5369 5370	0 0 0 0 0 0 0 0 0	м нон w	446 447 448 449 450 451 452 453 454	36.875 12.570 3.629 13.223 42.538 40.673 15.152 11.735 17.367 28.048	22.314 66.145 36.470 36.729 30.168 52.950 52.006 48.019 62.018 41.418 31.054	79.032 59.739 59.008 61.997 90.812 101.288 69.852 52.859 54.225 67.049	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87 1.00 21.07 1.00 20.74 1.00 25.04 1.00 26.89 1.00 20.41
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5360 5361 5362 5363 5364 5365 5366 5367 5368 5369 5370 5371	00000000000	м нон w	446 447 448 449 450 451 452 453 454 455 456	36.875 12.570 3.629 13.223 42.538 40.673 15.152 11.735 17.367 28.048 2.679	22.314 66.145 36.470 36.729 30.168 52.950 52.006 48.019 62.018 41.418 31.054 41.086	79.032 59.739 59.008 61.997 90.812 101.288 69.852 52.859 54.225 67.049 60.234	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87 1.00 21.07 1.00 20.74 1.00 25.04 1.00 26.89 1.00 20.41 1.00 22.58
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5360 5361 5362 5363 5364 5365 5366 5367 5368 5369 5370 5371	000000000000	м нон w	446 447 448 449 450 451 452 453 454 455 456 457	36.875 12.570 3.629 13.223 42.538 40.673 15.152 11.735 17.367 28.048 2.679 5.044	22.314 66.145 36.470 36.729 30.168 52.950 52.006 48.019 62.018 41.418 31.054 41.086 48.874	79.032 59.739 59.008 61.997 90.812 101.288 69.852 52.859 54.225 67.049 60.234 63.550	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87 1.00 21.07 1.00 20.74 1.00 25.04 1.00 26.89 1.00 20.41 1.00 22.58 1.00 24.48
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5360 5361 5362 5363 5364 5365 5366 5367 5368 5369 5370 5371	00000000000	м нон w	446 447 448 449 450 451 452 453 454 455 456 457 458	36.875 12.570 3.629 13.223 42.538 40.673 15.152 11.735 17.367 28.048 2.679	22.314 66.145 36.470 36.729 30.168 52.950 52.006 48.019 62.018 41.418 31.054 41.086	79.032 59.739 59.008 61.997 90.812 101.288 69.852 52.859 54.225 67.049 60.234	1.00 15.68 1.00 22.25 1.00 24.63 1.00 21.63 1.00 21.87 1.00 21.07 1.00 20.74 1.00 25.04 1.00 26.89 1.00 20.41 1.00 22.58

ATOM	5375	0	HOH W	460	27.735	64.900	76.010	1.00 22.50
MOTA	5376	0	HOH W 4	461	35.183	67.097	77.274	1.00 20.47
ATOM	5377	0	HOH W 4	462	40.016	67.442	82.803	1.00 30.25
MOTA	5378	0	HOH W 4	463	21.431	20.406	79.512	1.00 19.80
ATOM	5379	0	HOH W	464	9.801	21.726	85.048	1.00 31.87
MOTA	5380	0	HOH W	465	12.099	51.319	43.678	1.00 32.13
MOTA	5381	0	HOH W	466	21.479	47.570	79.573	1.00 20.70
MOTA	5382	0	HOH W	467	30.644	44.679	73.638	1.00 31.20
MOTA	5383	0	HOH W	468	12.649	37.474	63.305	1.00 20.96
MOTA	5384	0	HOH W 4	469	17.679	67.340	77.339	1.00 31.69
ATOM	5385	0	HOH W 4	470	42.001	40.231	84.180	1.00 25.43
MOTA	5386	0	HOH W	471	5.346	25.312	56.052	1.00 27.05
MOTA	5387	0	HOH W 4	472	24.008	46.111	79.563	1.00 24.38
ATOM	5388	0	HOH W	473	11.126	59.092	68.572	1.00 33.24
ATOM	5389	0	HOH W		10.233	25.426	87.360	1.00 27.17
ATOM	5390	0	HOH W 4		10.149	53.345	78.704	1.00 29.56
ATOM	5391	0	HOH W 4		1.207	43.652	68.278	1.00 26.00
ATOM	5392	ō	HOH W		12.018	17.344	61.729	1.00 27.50
ATOM	5393	o	HOH W		39.964	44.018	89.513	1.00 25.69
ATOM	5394	ō	HOH W		31.106	68.340	81.212	1.00 20.95
ATOM	5395	o	HOH W		9.540	56.742	68.398	1.00 22.40
ATOM	5396	ō	HOH W		40.376	40.423	86.930	1.00 24.01
ATOM	5397	ō	HOH W		10.453	46.869	72.971	1.00 28.43
ATOM	5398	o	HOH W		35.835	66.005	74.702	1.00 22.47
ATOM	5399	o	HOH W		16.339	37.719	53.138	1.00 23.36
MOTA	5400	o	HOH W		11.797	65.996	87.056	1.00 30.00
ATOM	5401	ŏ	HOH W		39.524	48.351	97.744	1.00 22.26
ATOM	5402	o		487	34.942	31.976	64.492	1.00 32.27
ATOM	5403	o	HOH W		1.032	27.223	55.074	1.00 23.57
ATOM	5404	ō	HOH W		10.893	73.559	54.865	1.00 28.01
ATOM	5405	ō	HOH W 4		16.301	57.229	55.525	1.00 30.08
ATOM	5406	o	HOH W		2.296	64.458	72.194	1.00 27.27
ATOM	5407	ō	HOH W		11.932	33.117	74.427	1.00 33.09
ATOM	5408	0	HOH W		26.709	61.818	82.089	1.00 25.83
ATOM	5409	0	HOH W		17.635	31.832	86.739	1.00 29.42
ATOM	5410	0	HOH W		30.861	47.483	57.592	1.00 23.10
MOTA	5411	0	HOH W		19.512	53.157	91.052	1.00 24.70
MOTA	5412	o	HOH W		8.653	71.188	54.342	1.00 37.16
ATOM	5413	0	HOH W		13.491	29.805	87.885	1.00 32.42
ATOM	5414	ō	HOH W		28.201	17.967	60.952	1.00 27.80
ATOM	5415	0	HOH W		13.916	53.020	42.749	1.00 34.25
ATOM	5416	0	HOH W		31.166	39.390	79.679	
ATOM	5417	0	HOH W		17.925	47.317	76.333	1.00 23.97
MOTA	5418	0	нон и		26.920	43.271	47.865	1.00 29.84
ATOM	5419	o	HOH W		19.244	18.770	54.825	1.00 29.50
ATOM	5420	ō	нон и		7.488	22.912	71.742	1.00 29.50
ATOM	5421	ō	HOH W		29.694	24.129	79.931	1.00 26.39
MOTA	5422	0	HOH W		16.580	53.935	65.413	1.00 23.97
ATOM	5423	0	HOH W		47.802	53.813		1.00 22.45
MOTA	5424	ŏ	HOH W		13.313	59.974	67.561	1.00 28.60
ATOM	5425	0	HOH W		31.231	48.847	69.951	1.00 40.26
ATOM	5426	ō	HOH W		25.597	46.283	68.073	1.00 31.31
ATOM	5427	0	HOH W		24.049	44.380	68.623	1.00 31.31
ATOM	5428	o	HOH W		42.296	47.182	85.395	1.00 32.90
ATOM	5429	0	HOH W		0.663	35.872	64.023	1.00 24.98
ATOM	5430	o	HOH W		15.871	27.279	83.599	1.00 28.22
ATOM	5431	o	HOH W		32.458	35.704	83.058	1.00 36.96
ATOM	5432	o	HOH W		10.338	31.191	71.389	1.00 28.72
111 011	J 4 J E	•	11011 # 1	/	10.556	J2.1J1	, 2 . 3 0 3	20.72

	5433	_				42 001	E2 060	1 00 00 40
MOTA	5433	0	HOH W		16.441	43.991	73.068	1.00 33.48
MOTA	5434	0	HOH W		21.382	44.079	85.715	1.00 36.47
MOTA	5435	0	HOH W	520	-12.204	45.119	45.339	1.00 38.99
MOTA	5436	0	HOH W	521	41.850	50.387	91.395	1.00 25.85
ATOM	5437	0	HOH W	522	38.157	43.711	71.143	1.00 33.79
ATOM	5438	0	HOH W	523	10.857	37.770	74.674	1.00 36.91
ATOM	5439	0	нон w		2.452	57.926	62.203	1.00 29.86
ATOM	5440	ō	HOH W		31.918	38.240	82.071	1.00 26.60
		Ö						
ATOM	5441		HOH W		19.394	32.573	51.517	1.00 32.52
MOTA	5442	0	HOH W		10.970	64.850	89.305	1.00 26.44
ATOM	5443	0	HOH W		15.768	58.372	93.236	1.00 29.74
MOTA	5444	0	HOH W	529	9.811	24.439	85.111	1.00 32.52
MOTA	5445	0	HOH W	530	32.677	43.807	51.972	1.00 41.47
ATOM	5446	0	HOH W	531	3.498	33.335	78.392	1.00 38.95
MOTA	5447	0	HOH W	532	22.765	37.334	45.311	1.00 34.30
ATOM	5448	0	HOH W	533	22.289	62.694	93.625	1.00 28.38
ATOM	5449	0	HOH W		18.456	59.233	56.401	1.00 32.51
ATOM	5450	ō	HOH W		6.870	45.103	78.168	1.00 43.85
MOTA	5451	Ö	HOH W		26.869	66.922	80.584	1.00 33.36
							80.635	
ATOM	5452	0	HOH W		28.274	69.424		1.00 32.22
ATOM	5453	0	HOH W		16.644	24.985	84.601	1.00 42.11
ATOM	5454	0	HOH W		13.875	66.937	52.609	1.00 39.81
ATOM	5455	0	HOH W	540	35.698	18.768	63.774	1.00 39.08
MOTA	5456	0	HOH W	541	9.604	60.060	65.965	1.00 39.46
ATOM	5457	0	HOH W	542	-19.968	45.560	49.328	1.00 49.42
MOTA	5458	0	HOH W	543	28.747	37.63 <b>7</b>	80.667	1.00 29.83
MOTA	5459	0	HOH W	544	38.122	41.611	59.189	1.00 42.35
ATOM	5460	0	HOH W	545	36.168	59.639	75.298	1.00 30.81
ATOM	5461	0	HOH W	546	5.231	27.744	55.129	1.00 40.94
ATOM	5462	0	HOH W		42.358	42.723	76.149	1.00 33.83
ATOM	5463	ō	HOH W		5.149	70.452	72.761	1.00 64.99
ATOM	5464	ō	HOH W		0.638	55.495	62.775	1.00 29.98
ATOM	5465	o	HOH W		35.051	47.144	54.258	1.00 36.91
ATOM	5466	Ö	HOH W		20.979	44.359	69.352	1.00 38.48
ATOM	5467	0	HOH W		8.699	44.016	58.770	1.00 39.13
ATOM	5468	0	HOH W		30.041	49.977	93.866	1.00 50.89
ATOM	5469	0	HOH W		14.340	30.254	46.134	1.00 34.10
ATOM	5470	0	HOH W		32.981	51.053	96.313	1.00 44.00
MOTA	5471	0	HOH W		18.695	43.789	84.698	1.00 31.02
MOTA	5472	0	HOH W	557	30.439	59.776	96.480	1.00 36.06
MOTA	5473	0	HOH W	558	31.888	50.518	46.532	1.00 40.30
MOTA	5474	0	HOH W	559	3.242	29.430	49.193	1.00 33.03
MOTA	5475	0	HOH W	560	29.069	39.191	66.924	1.00 34.29
MOTA	5476	0	HOH W	561	16.772	26.801	47.527	1.00 33.89
MOTA	5477	0	HOH W	562	20.672	46.162	88.583	1.00 46.20
MOTA	5478	0	HOH W		13.616	37.635	45.538	1.00 39.19
ATOM	5479	ō	HOH W		8.770	17.362	84.853	1.00 35.18
ATOM	5480	ō	HOH W		6.964	71.653	56.756	1.00 38.49
ATOM	5481	0	HOH W		32.889	26.311	70.997	1.00 36.28
ATOM	5482	0	HOH W		-4.292	32.373	61.200	1.00 42.40
ATOM	5483	0	HOH W		20.472	59.008	65.163	1.00 34.22
ATOM	5484	0	HOH W		8.439	37.901	87.957	1.00 41.86
ATOM	5485	0	HOH W		17.851	36.311	88.778	1.00 46.06
MOTA	5486	0	HOH W	573	37.092	57.002	76.397	1.00 39.65
MOTA	5487	0	HOH W	574	14.564	39.590	89.463	1.00 43.70
ATOM	5488	0	HOH W	575	24.608	41.607	70.049	1.00 50.15
ATOM	5489	0	HOH W	576	28.364	58.768	75.232	1.00 32.28
ATOM	5490	0	HOH W	577	33.944	37.330	52.777	1.00 33.76

ATOM	5491	0	HOH W	578	8.396	73.512	56.345	1.00 30.97
MOTA	5492	0	HOH W	579	3.331	27.097	72.842	1.00 45.67
MOTA	5493	0	HOH W	580	15.169	10.135	64.570	1.00 42.16
MOTA	5494	0	HOH W	581	45.191	54.292	101.410	1.00 30.43
MOTA	5495	0	HOH W	582	26.470	57.589	66.563	1.00 39.66
MOTA	5496	0	HOH W	583	10.893	50.001	41.681	1.00 27.20
MOTA	5497	0	HOH W	584	16.236	44.961	46.675	1.00 36.26
ATOM	5498	0	HOH W	585	30.990	43.578	71.047	1.00 45.95
MOTA	5499	0	HOH W	586	10.763	58.258	90.908	1.00 31.78
MOTA	5500	0	HOH W	587	17.447	64.598	52.313	1.00 35.13
ATOM	5501	0	HOH W	588	40.235	53.292	74.530	1.00 51.39
MOTA	5502	0	HOH W	589	18.908	42.622	78.518	1.00 39.32
MOTA	5503	0	HOH W	590	30.298	15.653	74.234	1.00 38.34
MOTA	5504	0	HOH W	591	31.762	51.365	51.354	1.00 47.66
ATOM	5505	0	HOH W	593	20.876	60.082	62.179	1.00 20.00
END								

## **CLAIMS**

- 1. An isolated protein comprising at least a subsequence of the amino acid sequence of leukotriene A₄ (LTA₄) hydrolase and having the corresponding three dimensional form adopted thereof in nature, said subsequence being capable of participating in the control of the an enzymatic pathway, such as the leukotriene cascade, a functionally equivalent part, derivative or conformational analogue thereof.
- 2. A protein according to claim 1, which is comprised essentially of the amino acid sequence of LTA₄ hydrolase and exhibits the corresponding three-dimensional form adopted thereof in nature, essentially as disclosed in Table 9-11 by the parameters defining atom 1- atom 4876.
- 3. A protein according to claim 1 or 2, which comprises an enzymatically active site defined in the following table:

	Left wall	Right wall
1		Lys608, Asp606, Lys605,
		Lys354, Thr355
2	Phe356, Phe362	Gln544, Asp573, Lys572, Arg568
3	Val376	Lys565, Arg540, Leu507
4	Ser380, Ser352, Glu348	Pro569
5	Tyr378, Glu348	Arg563, Glu533, Phe536,
		Arg537, Tyr267
6	Tyr383, Phe314, Glu318, Glu384,	
	Arg326	·
7	Gly268, Gly269, Met270	His295, Asn341, Phe340
8	Ser288, His497	Glu325, Asn291

4. A protein according to claim 3, which is an enzyme having a metallohydrolase activity capable of participating in the regulation of enzyme activities in

biochemical pathways, wherein said enzymes have structures similar to the ones defined in claim 3.

5. A protein according to claim 1 or 2, which comprises an enzymatically active site defined by the following amino acids:

Gln136 Ala137 Tyr267 Gly268 Gly269 Met270 Glu271 Val292 His295 Glu296 His299 Glu318 Tyr378 Tyr383 Arg563 Lys565

6. A protein according to claim 1 or 2, which comprises an enzymatically active site defined by the following amino acids:

Gln136 Ala137 **Tyr267** Gly268 Gly269 Met270 Glu271 Val292 His295 Glu296 His299 Trp315 Glu318 Val322 Phe362 Val367 Leu369

Pro374

Asp375 Ile372 Ala377 Pro382 Tyr378 Tyr383 Arg563 Lys565

- 7. A compound which is substantially complementary to a protein according to any one of claims 1-6.
- 8. A compound according to claim 7, which is substantially complementary to an enzymatically active site of said protein and which is capable of specifically inhibiting said enzymatic activity.
- 9. A compound according to claim 8, which is an inhibitor of a metallohydrolase enzyme.
  - 10. An isolated complex, which is comprised of a protein according to claim 1-6 and a complementary compound according to any one of claims 7-9, wherein the three-dimensional structure of LTA₄ hydrolase is essentially as disclosed in Tables 9-11 by the parameters defining atom 1- atom 4876, or a functionally equivalent part, derivative or conformational analogue of such a complex.
  - 11. A complex according to claim 10, wherein the protein complexed with LTA₄ hydrolase is the inhibitor bestatin, thiolamine or hydroxamic acid, wherein the three-dimensional structure of said inhibitor is essentially as disclosed in Tables 9-11, or a functionally equivalent part, derivative or conformational analogue of such a complex.
  - 12. Use of a protein according to any one of claims 1-6, a compound according to any one of claims 7-9 or a complex according to claim 10 or 11 in drug design, such as in molecular modeling, direct structure-based design and/or combinatorial chemistry.
  - 13. Use according to claim 12, wherein said drug is for the treatment and/or prevention of disorders involving acute and chronic inflammatory and/or

- allergic symtoms, said disorder being selected from the group consisting of arthritis, inflammatory bowel disease (IBD), psoriasis, chronic obstructive pulmonary disease (COPD), and acquired immune deficiency syndrome (AIDS).
- 14. Use according to claim 12, wherein said drug is for the treatment and/or prevention of proliferative disorders, such as neoplasias and/or cancer.
- 15. Use according to claim 12, wherein said drug is for the treatment and/or prevention of disorders caused by the lethal factor of *Bacillus anthracis*, e.g. anthrax.
- 16. A method for screening LTA₄ hydrolase analogues that mimic at least a part of the three dimensional structure of the LTA₄ hydrolase molecule, which comprises the steps of
- (a) producing a multiplicity of analogue structures of LTA₄ hydrolase and
- (b) selecting an analogue structure, wherein the three-dimensional configuration and spatial arrangement of one or more enzymatically active sites and/or binding sites of said LTA₄ hydrolase remain substantially preserved, said LTA₄ hydrolase being defined by the three-dimensional form adopted thereof in nature, preferably as disclosed in Tables 9-11 the by parameters defining atom 1- atom 4876.
- 17. A method according to claim 16, wherein an analogue exhibiting an enzymatic activity, such as an epoxide hydrolase and/or aminopeptidase activity, is selected.
- 18. A method according to claim 16 or 17, wherein an enzymatic inhibitor complementary to the amino acids defined in any one of claims 4, 5 or 6 is screened for.
- 19. An analogue obtainable by the method according to any one of claims 16-18.
- 20. An analogue according to claim 19, which exhibits an increased catalytic activity when compared to the naturally occurring form of LTA₄ hydrolase, such as defined in Tables 9-11 by parameters of atom 1- atom 4876.

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- 21. A method for screening LTA₄ hydrolase binding compounds complementary to a region of LTA₄ hydrolase, preferably an enzymatically active site thereof, which comprises the steps of
- (a) producing a multiplicity of possible complementary structures and
- (b) selecting a structure, wherein the three-dimensional configuration and spatial arrangement of regions involved in binding to LTA₄ hydrolase remain substantially preserved, which selection is based on the three-dimensional structure of LTA₄ hydrolase, and/or LTA₄ hydrolase complexed to an inhibitor thereof, in a form adopted thereof in nature, such as defined in Tables 9-11.
- 22. A method according to claim 21, wherein a general metallohydrolase inhibitor is selected, which is capable of inhibiting an enzyme belonging to the M1 family.
- 23. A method according to claim 21, wherein an inhibitor of the epoxide hydrolase activity and/or aminopeptidase activity of LTA₄ hydrolase or of LTC₄ synthases is selected.
- 24. A method according to claim 21, wherein a compound capable of antagonizing LTB₄ receptor binding of a cell is selected.
- 25. A compound obtainable by the method according to any one of claims 21-24.
- 26. A method of engineering a protein, which method comprises the steps of -identification of a suitable set of mutations based on the structure of LTA₄ hydrolase;
- -generation of a library of genes which contains the suitable sequence variations;
- -selection of clones encoding the LTA₄ hydrolase analogues with a desired activity function;
- wherein said desired activity is the capability of efficiently producing an organic compound of interest.
- 27.A method according to claim 26, wherein the specified property is the suicidal mode of action of LTA₄ hydrolase.

## **ABSTRACT**

The present invention relates to an isolated leukotriene A₄ (LTA₄) hydrolase, which LTA₄ hydrolase is present in its naturally ocurring three dimensional form. It is the first three-dimensional structure of any protein component of the leukotriene cascade and enables a description of the structural basis and molecular mechanisms for the two catalytic activities of LTA₄ hydrolase. Further, the invention also relates to LTA₄ hydrolase complexed withan inhibitor. The structural information provided by the present invention will make possible rational design of enzyme inhibitors, which may be developed into clinically useful anti-inflammatory drugs

Figure 1

Figure 2

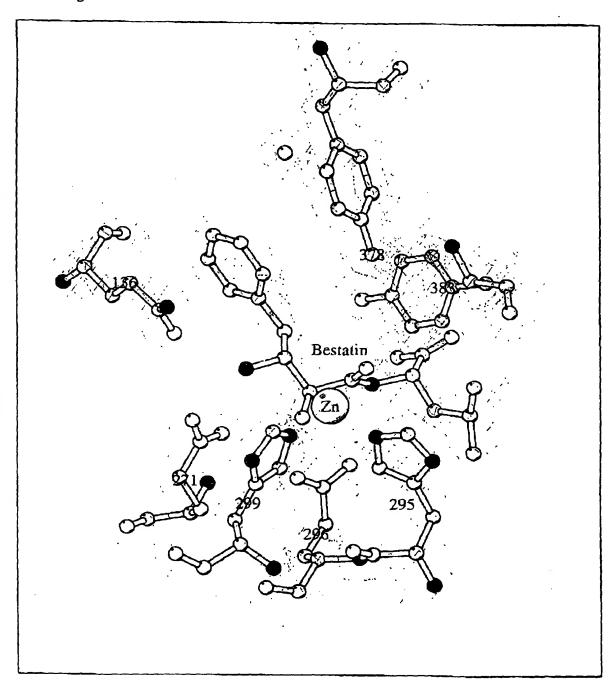
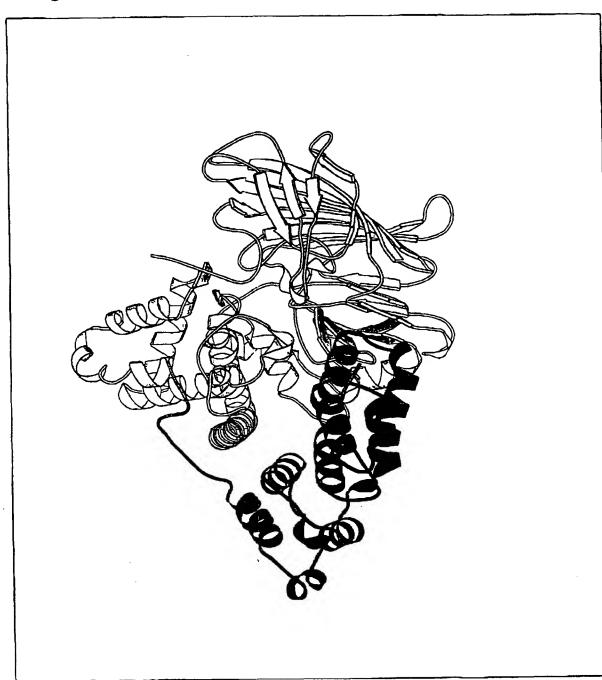
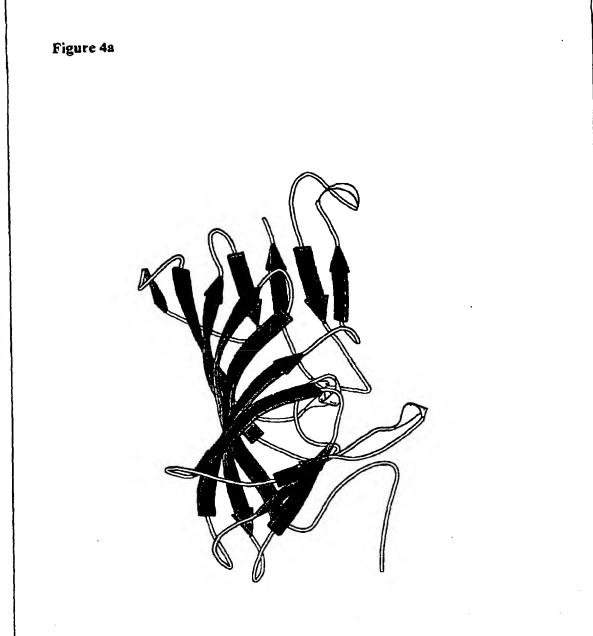
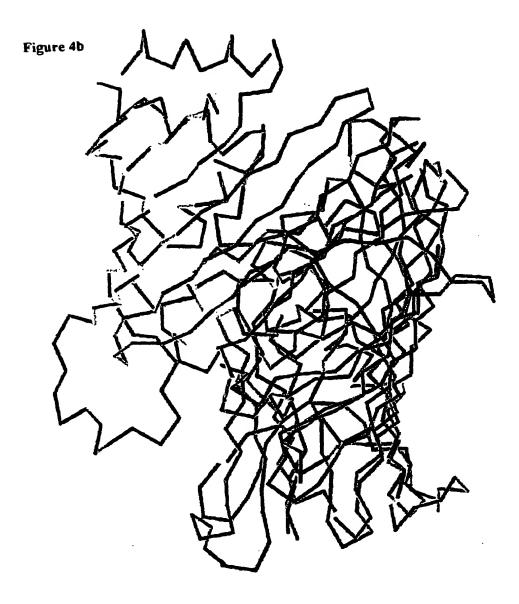


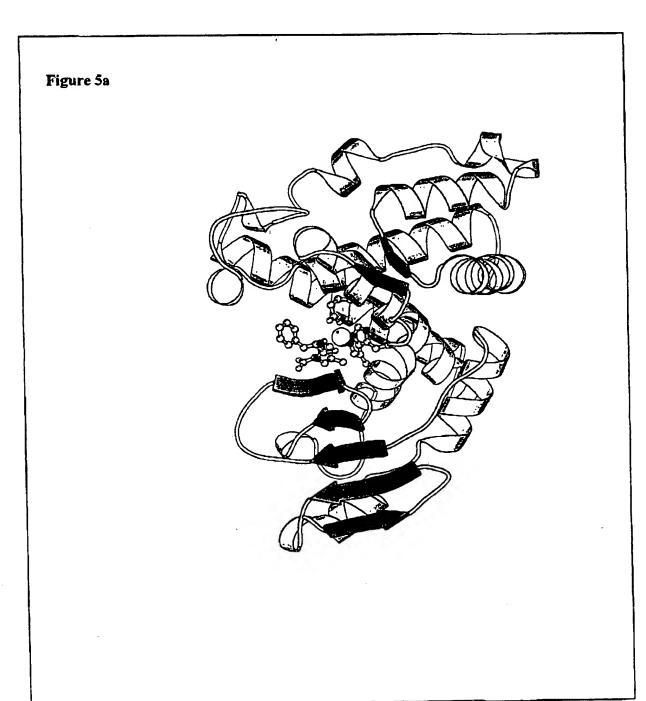
Figure 3

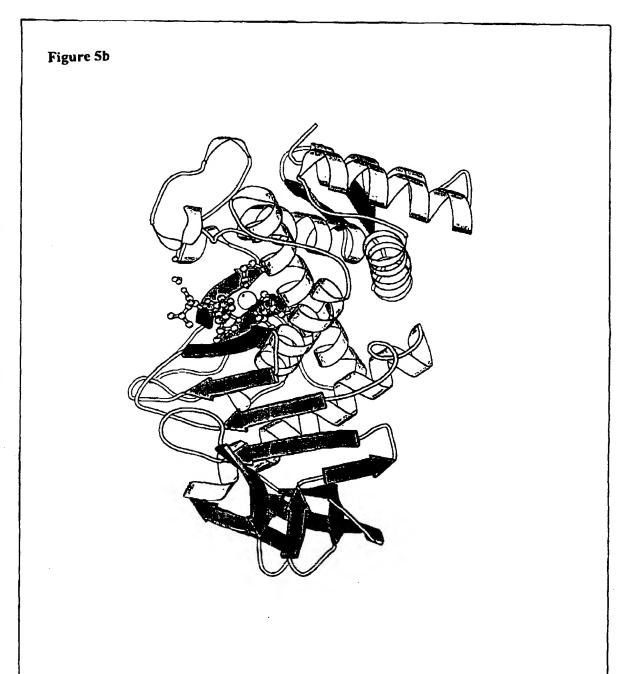






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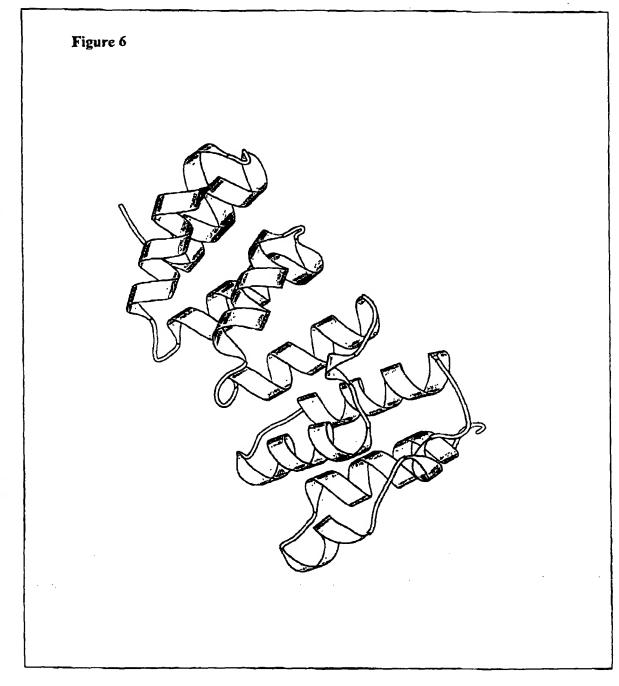
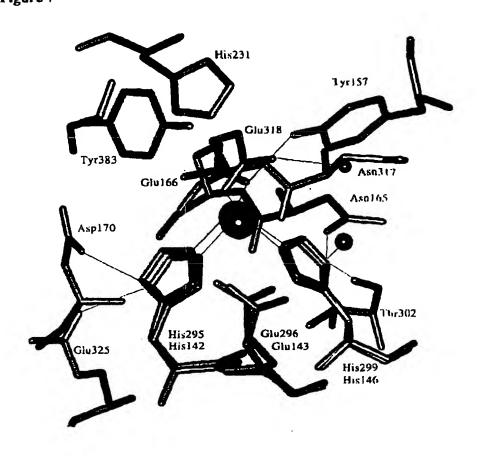
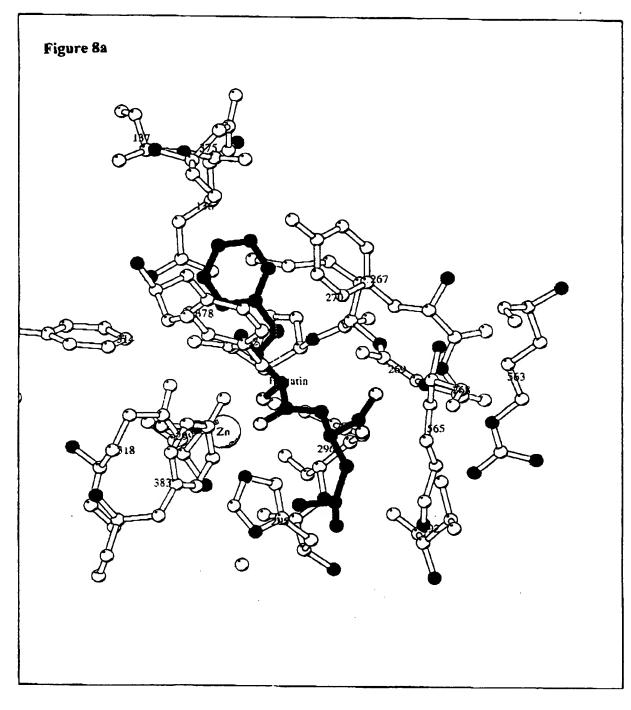


Figure 7



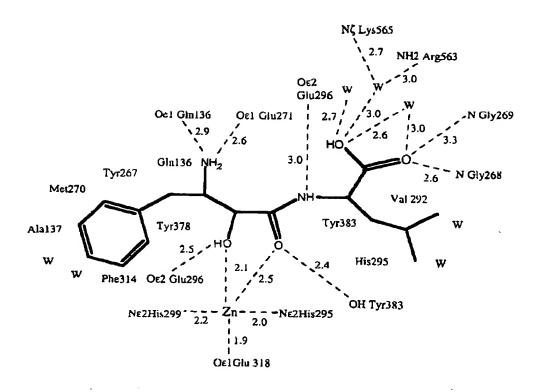
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MOLDWILL COMPAG

Figure 8b

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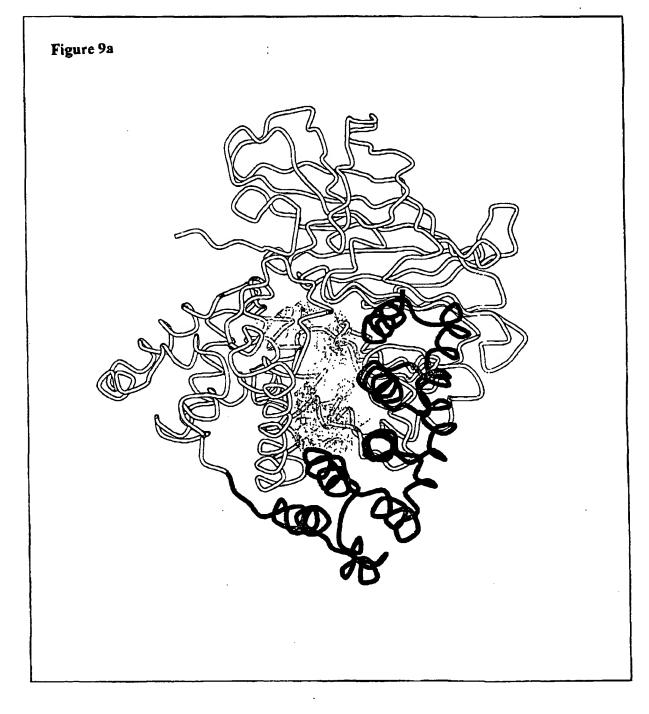
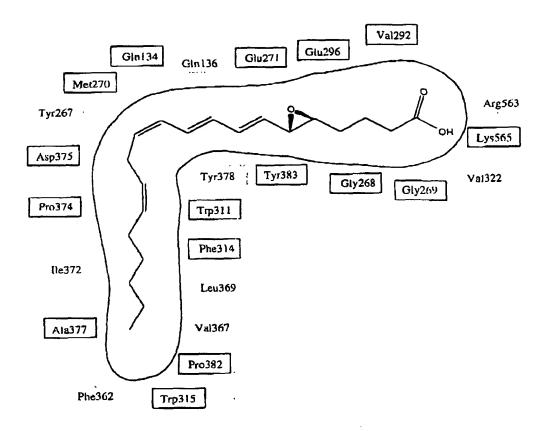


Figure 9b



1.	